

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : RFP 265

WESTON SOLUTIONS, INC.

Raritan Plaza Suite 201

1090 King Georges Post Road

Edison, NJ - 08837-3703

Phone No: 732-225-6116

ORDER ID : E3897

ATTENTION : Smita Sumbaly



DoD ELAP

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Cover Page

Order ID : E3897**Project ID :** RFP 265**Client :** Weston Solutions, Inc.**Lab Sample Number**

E3897-01
E3897-02
E3897-03
E3897-04
E3897-05
E3897-06
E3897-07
E3897-08
E3897-09
E3897-10
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E3897-12
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E3897-14
E3897-15
E3897-16
E3897-17
E3897-18
E3897-19
E3897-20
E3897-21

Client Sample Number

P001-S-3010-1
P001-S-3011-1
P001-S-3012-1
P001-S-3013-1
P001-S-4001-1
P001-S-4002-1
P001-S-4003-1
P001-S-5001-1
P001-S-5002-1
P001-S-5003-1
P001-S-5004-1
P001-S-5005-1
P001-S-6004-1
P001-S-6005-1
P001-S-6005-2
P001-S-6006-1
P001-S-6007-1
P001-S-6008-1
P001-S-7001-1
P001-S-7002-1
P001-S-7003-1

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 10/4/2013

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.

Project Name: RFP 265

Project # N/A

Chemtech Project # E3897

Test Name: Corrosivity, Ignitability, Reactive Cyanide, Reactive Sulfide

A. Number of Samples and Date of Receipt:

21 Solid samples were received on 09/27/2013.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Ignitability, RCRA CHARACTERISTICS, Reactive Cyanide and Reactive Sulfide. This data package contains results for Corrosivity, Ignitability, Reactive Cyanide, Reactive Sulfide.

C. Analytical Techniques:

The analysis of Ignitability was based on method 1030, The analysis of Reactive Cyanide was based on method 9012B, The analysis of Reactive Sulfide was based on method 9034 and The analysis of Corrosivity was based on method 9045C.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis (WC1S-Sample E3861-02 and P001-S-3013-1S-Sample E3897-04) met criteria for all samples except for Reactive Cyanide; may be due to matrix interference.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers "P" for ICP instrument "PM" for ICP when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi -Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: E3897

MATRIX: Solid

METHOD: 1030/9012B/9034/9045C

	NA	NO	YES
1. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
2. Matrix Spike Duplicate Recoveries Met Criteria		✓	
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Blank Spike met requirements for all samples. The Matrix Spike analysis (WC1S-Sample E3861-02 & P001-S-3013-1S-Sample E3897-04) met criteria for all samples except for Reactive Cyanide.			
3. Sample Duplicate Analysis Met QC Criteria			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
8. Digestion Holding Time Met			✓
If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

_____
QA REVIEW____10/04/13____
Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: E3897

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

1st Level QA Review Signature: SHELLY GUHA

Date: 10/04/2013

2nd Level QA Review Signature: _____

Date: _____

LAB CHRONICLE

OrderID:	E3897	OrderDate:	9/27/2013 2:48:00 PM
Client:	Weston Solutions, Inc.	Project:	RFP 265
Contact:	Smita Sumbaly	Location:	G21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
E3897-01	P001-S-3010-1	SOIL			09/27/13 10:15			09/27/13
			Corrosivity	9045C		09/28/13	09/28/13 14:05	
			Ignitability	1030		09/28/13	09/28/13 16:00	
			Reactive Cyanide	9012B		09/28/13	09/30/13 12:34	
			Reactive Sulfide	9034		09/28/13	09/28/13 11:45	
E3897-02	P001-S-3011-1	SOIL			09/27/13 10:25			09/27/13
			Corrosivity	9045C		09/28/13	09/28/13 14:13	
			Ignitability	1030		09/28/13	09/28/13 16:00	
			Reactive Cyanide	9012B		09/28/13	09/30/13 12:34	
			Reactive Sulfide	9034		09/28/13	09/28/13 11:45	
E3897-03	P001-S-3012-1	SOIL			09/27/13 10:40			09/27/13
			Corrosivity	9045C		09/28/13	09/28/13 14:17	
			Ignitability	1030		09/28/13	09/28/13 16:00	
			Reactive Cyanide	9012B		09/28/13	09/30/13 12:34	
			Reactive Sulfide	9034		09/28/13	09/28/13 11:45	
E3897-04	P001-S-3013-1	SOIL			09/26/13 10:50			09/27/13
			Corrosivity	9045C		09/28/13	09/28/13 14:21	
			Ignitability	1030		09/28/13	09/28/13 16:00	
			Reactive Cyanide	9012B		09/28/13	09/30/13 13:42	
			Reactive Sulfide	9034		09/28/13	09/28/13 18:45	
E3897-05	P001-S-4001-1	SOIL			09/26/13 14:00			09/27/13
			Corrosivity	9045C		09/28/13	09/28/13 14:25	
			Ignitability	1030		09/28/13	09/28/13 16:00	
			Reactive Cyanide	9012B		09/28/13	09/30/13 13:42	
			Reactive Sulfide	9034		09/28/13	09/28/13 18:45	
E3897-06	P001-S-4002-1	SOIL			09/26/13 13:25			09/27/13
			Corrosivity	9045C		09/28/13	09/28/13 14:29	
			Ignitability	1030		09/28/13	09/28/13 16:00	

LAB CHRONICLE

			Reactive Cyanide	9012B	09/28/13	09/30/13 13:42
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-07	P001-S-4003-1	SOIL			09/26/13 13:30	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 14:33
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:49
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-08	P001-S-5001-1	SOIL			09/26/13 13:40	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 14:37
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:49
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-09	P001-S-5002-1	SOIL			09/26/13 10:00	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 14:41
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:49
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-10	P001-S-5003-1	SOIL			09/26/13 10:10	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 14:49
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:49
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-11	P001-S-5004-1	SOIL			09/26/13 13:30	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 14:57
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:50
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-12	P001-S-5005-1	SOIL			09/26/13 10:45	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:01
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:50
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-13	P001-S-6004-1	SOIL			09/26/13 10:55	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:05
			Ignitability	1030	09/28/13	09/28/13 16:00

LAB CHRONICLE

			Reactive Cyanide	9012B	09/28/13	09/30/13 13:50
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-14	P001-S-6005-1	SOIL			09/26/13 13:10	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:09
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:50
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-15	P001-S-6005-2	SOIL			09/26/13 11:40	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:13
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:50
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-16	P001-S-6006-1	SOIL			09/26/13 11:40	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:17
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:57
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-17	P001-S-6007-1	SOIL			09/26/13 11:06	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:21
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:57
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-18	P001-S-6008-1	SOIL			09/26/13 11:20	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:25
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:57
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-19	P001-S-7001-1	SOIL			09/26/13 11:30	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:33
			Ignitability	1030	09/28/13	09/28/13 16:00
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:57
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45
E3897-20	P001-S-7002-1	SOIL			09/26/13 12:52	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:41
			Ignitability	1030	09/28/13	09/28/13 16:00

LAB CHRONICLE

E3897-21	P001-S-7003-1	SOIL	Reactive Cyanide	9012B	09/28/13	09/30/13 13:57	
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45	
						09/26/13 12:58	09/27/13
			Corrosivity	9045C	09/28/13	09/28/13 15:45	
			Ignitability	1030	09/28/13	09/28/13 16:00	
			Reactive Cyanide	9012B	09/28/13	09/30/13 13:57	
			Reactive Sulfide	9034	09/28/13	09/28/13 18:45	

SAMPLE DATA

1
2
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13

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/27/13 10:15
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-3010-1	SDG No.:	E3897
Lab Sample ID:	E3897-01	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	5.36		1	0	0	0	pH	09/28/13	09/28/13 14:05	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 12:34	9012B
Reactive Sulfide	42		1	10	10	10	mg/Kg	09/28/13	09/28/13 11:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/27/13 10:25
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-3011-1	SDG No.:	E3897
Lab Sample ID:	E3897-02	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	4.77		1	0	0	0	pH	09/28/13	09/28/13 14:13	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 12:34	9012B
Reactive Sulfide	46		1	10	10	10	mg/Kg	09/28/13	09/28/13 11:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/27/13 10:40
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-3012-1	SDG No.:	E3897
Lab Sample ID:	E3897-03	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	6.28		1	0	0	0	pH	09/28/13	09/28/13 14:17	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 12:34	9012B
Reactive Sulfide	48		1	10	10	10	mg/Kg	09/28/13	09/28/13 11:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 10:50
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-3013-1	SDG No.:	E3897
Lab Sample ID:	E3897-04	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	6.21		1	0	0	0	pH	09/28/13	09/28/13 14:21	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:42	9012B
Reactive Sulfide	46		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 14:00
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-4001-1	SDG No.:	E3897
Lab Sample ID:	E3897-05	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	6.96		1	0	0	0	pH	09/28/13	09/28/13 14:25	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:42	9012B
Reactive Sulfide	29		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 13:25
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-4002-1	SDG No.:	E3897
Lab Sample ID:	E3897-06	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.94		1	0	0	0	pH	09/28/13	09/28/13 14:29	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:42	9012B
Reactive Sulfide	27		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 13:30
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-4003-1	SDG No.:	E3897
Lab Sample ID:	E3897-07	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.03		1	0	0	0	pH	09/28/13	09/28/13 14:33	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:49	9012B
Reactive Sulfide	40		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 13:40
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-5001-1	SDG No.:	E3897
Lab Sample ID:	E3897-08	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.62		1	0	0	0	pH	09/28/13	09/28/13 14:37	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:49	9012B
Reactive Sulfide	45		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 10:00
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-5002-1	SDG No.:	E3897
Lab Sample ID:	E3897-09	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.26		1	0	0	0	pH	09/28/13	09/28/13 14:41	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:49	9012B
Reactive Sulfide	41		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 10:10
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-5003-1	SDG No.:	E3897
Lab Sample ID:	E3897-10	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.13		1	0	0	0	pH	09/28/13	09/28/13 14:49	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:49	9012B
Reactive Sulfide	38		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 13:30
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-5004-1	SDG No.:	E3897
Lab Sample ID:	E3897-11	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.25		1	0	0	0	pH	09/28/13	09/28/13 14:57	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:50	9012B
Reactive Sulfide	43		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 10:45
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-5005-1	SDG No.:	E3897
Lab Sample ID:	E3897-12	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	6.24		1	0	0	0	pH	09/28/13	09/28/13 15:01	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:50	9012B
Reactive Sulfide	46		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 10:55
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-6004-1	SDG No.:	E3897
Lab Sample ID:	E3897-13	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.58		1	0	0	0	pH	09/28/13	09/28/13 15:05	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:50	9012B
Reactive Sulfide	45		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 13:10
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-6005-1	SDG No.:	E3897
Lab Sample ID:	E3897-14	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	6.97		1	0	0	0	pH	09/28/13	09/28/13 15:09	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:50	9012B
Reactive Sulfide	43		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 11:40
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-6005-2	SDG No.:	E3897
Lab Sample ID:	E3897-15	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	6.85		1	0	0	0	pH	09/28/13	09/28/13 15:13	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:50	9012B
Reactive Sulfide	62		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 11:40
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-6006-1	SDG No.:	E3897
Lab Sample ID:	E3897-16	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.45		1	0	0	0	pH	09/28/13	09/28/13 15:17	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:57	9012B
Reactive Sulfide	61		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

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E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 11:06
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-6007-1	SDG No.:	E3897
Lab Sample ID:	E3897-17	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	6.88		1	0	0	0	pH	09/28/13	09/28/13 15:21	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:57	9012B
Reactive Sulfide	62		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 11:20
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-6008-1	SDG No.:	E3897
Lab Sample ID:	E3897-18	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	5.71		1	0	0	0	pH	09/28/13	09/28/13 15:25	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:57	9012B
Reactive Sulfide	30		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 11:30
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-7001-1	SDG No.:	E3897
Lab Sample ID:	E3897-19	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	8.07		1	0	0	0	pH	09/28/13	09/28/13 15:33	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:57	9012B
Reactive Sulfide	24		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 12:52
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-7002-1	SDG No.:	E3897
Lab Sample ID:	E3897-20	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.22		1	0	0	0	pH	09/28/13	09/28/13 15:41	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:57	9012B
Reactive Sulfide	18		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

LOQ = Limit of Quantitation

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LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/26/13 12:58
Project:	RFP 265	Date Received:	09/27/13
Client Sample ID:	P001-S-7003-1	SDG No.:	E3897
Lab Sample ID:	E3897-21	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity (as pH)	7.17		1	0	0	0	pH	09/28/13	09/28/13 15:45	SW9045C
Ignitability	NO		1	0	0	0	o C	09/28/13	09/28/13 16:00	1030
Reactive Cyanide	0.05	U	1	0.05	0.05	0.05	mg/Kg	09/28/13	09/30/13 13:57	9012B
Reactive Sulfide	13		1	10	10	10	mg/Kg	09/28/13	09/28/13 18:45	9034

Comments:

U = Not Detected

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H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification**Client:** Weston Solutions, Inc.**SDG No.:** E3897**Project:** RFP 265**RunNo.:** LB67937

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 Corrosivity (as pH)	pH	7.01	7.00	100	90-110	09/28/2013
Sample ID: CCV1 Corrosivity (as pH)	pH	2.02	2.00	101	90-110	09/28/2013
Sample ID: CCV2 Corrosivity (as pH)	pH	2.02	2.00	101	90-110	09/28/2013
Sample ID: CCV3 Corrosivity (as pH)	pH	2.01	2.00	101	90-110	09/28/2013
Sample ID: CCV4 Corrosivity (as pH)	pH	11.97	12.00	100	90-110	09/28/2013

Initial and Continuing Calibration Verification

Client: Weston Solutions, Inc.

SDG No.: E3897

Project: RFP 265

RunNo.: LB67946

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: CCV1 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	09/30/2013
Sample ID: ICV1 Reactive Cyanide	mg/L	0.10	0.10	100	85-115	09/30/2013
Sample ID: CCV2 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	09/30/2013
Sample ID: CCV3 Reactive Cyanide	mg/L	0.26	0.25	104	90-110	09/30/2013

Initial and Continuing Calibration Verification

Client: Weston Solutions, Inc.

SDG No.: E3897

Project: RFP 265

RunNo.: LB67947

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: CCV1 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	09/30/2013
Sample ID: ICV1 Reactive Cyanide	mg/L	0.10	0.10	100	85-115	09/30/2013
Sample ID: CCV2 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	09/30/2013
Sample ID: CCV3 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	09/30/2013
Sample ID: CCV4 Reactive Cyanide	mg/L	0.25	0.25	100	90-110	09/30/2013

Initial and Continuing Calibration Verification

Client:	Weston Solutions, Inc.	SDG No.:	E3897
Project:	RFP 265	RunNo.:	LB67947

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
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Initial and Continuing Calibration Blank Summary

Client: Weston Solutions, Inc.

SDG No.: E3897

Project: RFP 265

RunNo.: LB67946

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: CCB1 Reactive Cyanide	mg/L	< 0.005	+/-0.005	0.005	0.005	09/30/2013
Sample ID: ICB1 Reactive Cyanide	mg/L	< 0.005	+/-0.005	0.005	0.005	09/30/2013
Sample ID: CCB2 Reactive Cyanide	mg/L	< 0.005	+/-0.005	0.005	0.005	09/30/2013
Sample ID: CCB3 Reactive Cyanide	mg/L	< 0.005	+/-0.005	0.005	0.005	09/30/2013

Initial and Continuing Calibration Blank Summary

Client: Weston Solutions, Inc.

SDG No.: E3897

Project: RFP 265

RunNo.: LB67947

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: CCB1 Reactive Cyanide	mg/L	< 0.005	+/-0.005	0.005	0.005	09/30/2013
Sample ID: ICB1 Reactive Cyanide	mg/L	< 0.005	+/-0.005	0.005	0.005	09/30/2013
Sample ID: CCB2 Reactive Cyanide	mg/L	< 0.005	+/-0.005	0.005	0.005	09/30/2013
Sample ID: CCB3 Reactive Cyanide	mg/L	< 0.005	+/-0.005	0.005	0.005	09/30/2013
Sample ID: CCB4 Reactive Cyanide	mg/L	< 0.005	+/-0.005	0.005	0.005	09/30/2013

Initial and Continuing Calibration Blank Summary

Client:	Weston Solutions, Inc.	SDG No.:	E3897
Project:	RFP 265	RunNo.:	LB67947

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
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Preparation Blank Summary

Client: Weston Solutions, Inc.

SDG No.: E3897

Project: RFP 265

Analyte	Units	Result	Acceptance Limits	MDL	RDL	Analysis Date
Sample ID: LB67946BLS						
Reactive Cyanide	mg/Kg	< 0.050	+/-0.050	0.050	0.050	09/30/2013
Sample ID: LB67947BLS						
Reactive Cyanide	mg/Kg	< 0.050	+/-0.050	0.050	0.050	09/30/2013
Sample ID: LB67949BLS						
Reactive Sulfide	mg/Kg	< 10.00	+/-10.00	10.00	10.00	09/28/2013
Sample ID: LB67950BLS						
Reactive Sulfide	mg/Kg	< 10.00	+/-10.00	10.00	10.00	09/28/2013

Matrix Spike Summary

Client:	Weston Solutions, Inc.	SDG No.:	E3897
Project:	RFP 265	Sample ID:	E3861-02
Client ID:	WC1S	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Reactive Cyanide	mg/Kg	48-158	0.12		0.05	U	0.40	1	30		09/30/2013
Reactive Sulfide	mg/Kg	75-125	217.0		10.0	U	250.00	1	87		09/28/2013

Matrix Spike Summary

Client:	Weston Solutions, Inc.	SDG No.:	E3897
Project:	RFP 265	Sample ID:	E3897-04
Client ID:	P001-S-3013-1S	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Reactive Cyanide	mg/Kg	48-158	0.05	U	0.05	U	0.40	1	0		09/30/2013
Reactive Sulfide	mg/Kg	75-125	260.0		46.00		250.00	1	86		09/28/2013

Duplicate Sample Summary

Client:	Weston Solutions, Inc.	SDG No.:	E3897
Project:	RFP 265	Sample ID:	E3861-02
Client ID:	WC1D	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.050	U	0.050	U	1	0		09/30/2013
Ignitability	o C	+/-20	NO		NO		1	0		09/28/2013
Reactive Sulfide	mg/Kg	+/-20	10.00	U	10.00	U	1	0		09/28/2013

Duplicate Sample Summary

Client:	Weston Solutions, Inc.	SDG No.:	E3897
Project:	RFP 265	Sample ID:	E3897-01
Client ID:	P001-S-3010-1D	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/AD	Qual	Analysis Date
Ignitability	o C	+/-20	NO		NO		1	0		09/28/2013
Corrosivity (as pH)	pH	+/-20	5.360		5.370		1	0.2		09/28/2013

Duplicate Sample Summary

Client:	Weston Solutions, Inc.	SDG No.:	E3897
Project:	RFP 265	Sample ID:	E3897-04
Client ID:	P001-S-3013-1D	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.050	U	0.050	U	1	0		09/30/2013
Reactive Sulfide	mg/Kg	+/-20	46.00		46.00		1	0		09/28/2013

Duplicate Sample Summary

Client:	Weston Solutions, Inc.	SDG No.:	E3897
Project:	RFP 265	Sample ID:	E3897-10
Client ID:	P001-S-5003-1D	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/AD	Qual	Analysis Date
Corrosivity (as pH)	pH	+/-20	7.130		7.140		1	0.1		09/28/2013

Duplicate Sample Summary

Client:	Weston Solutions, Inc.	SDG No.:	E3897
Project:	RFP 265	Sample ID:	E3897-19
Client ID:	P001-S-7001-1D	Percent Solids for Spike Sample:	100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/AD	Qual	Analysis Date
Corrosivity (as pH)	pH	+/-20	8.070		8.080		1	0.1		09/28/2013

Laboratory Control Sample Summary

Client: Weston Solutions, Inc.
Project: RFP 265

SDG No.: E3897
Run No.: LB67946

Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB67946BSS							
Reactive Cyanide	mg/Kg	2.00	1.92		96	1	85-115	09/30/2013

Laboratory Control Sample Summary

Client: Weston Solutions, Inc.
Project: RFP 265

SDG No.: E3897
Run No.: LB67947

Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB67947BSS								
Reactive Cyanide	mg/Kg	2.00	1.91		96	1	85-115	09/30/2013

Laboratory Control Sample Summary

Client: Weston Solutions, Inc.
Project: RFP 265

SDG No.: E3897
Run No.: LB67949

Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB67949BSS							
Reactive Sulfide	mg/Kg	250.00	219.00		88	1	80-120	09/28/2013

Laboratory Control Sample Summary

Client: Weston Solutions, Inc.
Project: RFP 265

SDG No.: E3897
Run No.: LB67950

Analyte	Units	True Value	Result	C	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB67950BSS							
Reactive Sulfide	mg/Kg	250.00	218.00		87	1	80-120	09/28/2013

Method Detection Limits

Client: Weston Solutions, Inc.

SDG No.: E3897

Project: RFP 265

Analyte	Units	MDL	RDL
Method: 1030 Ignitability			
Matrix Category: SOLIDS		MDL Date:	01/15/2006
Ignitability	o C	150.00	150.00
Method: 9012B Reactive Cyanide			
Matrix Category: LIQUID		MDL Date:	01/15/2006
Reactive Cyanide	mg/L	0.005	0.005
Matrix Category: SOLIDS			
Reactive Cyanide	mg/Kg	0.050	0.050
Method: 9034 Reactive Sulfide			
Matrix Category: SOLIDS		MDL Date:	01/15/2006
Reactive Sulfide	mg/Kg	10.00	10.00
Method: 9045C Corrosivity			
Matrix Category: LIQUID		MDL Date:	01/15/2006
Corrosivity (as pH)	pH	0.00	0.00
Matrix Category: SOLIDS			
Corrosivity (as pH)	pH	0.00	0.00

RAW DATA

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Analytical Summary Report

Analysis Method: 9045C Corrosivity
Parameter: Corrosivity
Run Number: LB67937
Instrument: pH Meter

REVIEWED BY:

TEMP. = 20.9 °C
SLOPE = 98.3

Seq	Lab ID	Sample Type	Result pH	Dil	Time	Matrix	Analytical Date
1	CAL 4	CAL	4.01	1	1:45 PM	WATER	09/28/2013
2	CAL 7	CAL	7.01	1	1:49	WATER	09/28/2013
3	CAL 10	CAL	10.05	1	1:53	WATER	09/28/2013
4	ICV 7	ICV	7.01	1	1:57	WATER	09/28/2013
5	CCV 2	CCV	2.02	1	2:01	WATER	09/28/2013
6	E3897-01	SAM	5.36	1	2:05	SOIL	09/28/2013
7	E3897-01D	DUP	5.37	1	2:09	SOIL	09/28/2013
8	E3897-02	SAM	4.77	1	2:13	SOIL	09/28/2013
9	E3897-03	SAM	6.28	1	2:17	SOIL	09/28/2013
10	E3897-04	SAM	6.21	1	2:21	SOIL	09/28/2013
11	E3897-05	SAM	6.96	1	2:25	SOIL	09/28/2013
12	E3897-06	SAM	7.94	1	2:29	SOIL	09/28/2013
13	E3897-07	SAM	7.03	1	2:33	SOIL	09/28/2013
14	E3897-08	SAM	7.62	1	2:37	SOIL	09/28/2013
15	E3897-09	SAM	7.26	1	2:41	SOIL	09/28/2013
16	CCV 2	CCV	2.02	1	2:45	WATER	09/28/2013
17	E3897-10	SAM	7.13	1	2:49	SOIL	09/28/2013
18	E3897-10D	DUP	7.14	1	2:53	SOIL	09/28/2013
19	E3897-11	SAM	7.25	1	2:57	SOIL	09/28/2013
20	E3897-12	SAM	6.24	1	3:01	SOIL	09/28/2013
21	E3897-13	SAM	7.58	1	3:05	SOIL	09/28/2013
22	E3897-14	SAM	6.97	1	3:09	SOIL	09/28/2013
23	E3897-15	SAM	6.85	1	3:13	SOIL	09/28/2013
24	E3897-16	SAM	7.45	1	3:17	SOIL	09/28/2013
25	E3897-17	SAM	6.88	1	3:21	SOIL	09/28/2013
26	E3897-18	SAM	5.71	1	3:25	SOIL	09/28/2013
27	CCV 2	CCV	2.01	1	3:29	WATER	09/28/2013
28	E3897-19	SAM	8.07	1	3:33	SOIL	09/28/2013
29	E3897-19D	DUP	8.08	1	3:37	SOIL	09/28/2013
30	E3897-20	SAM	7.22	1	3:41	SOIL	09/28/2013
31	E3897-21	SAM	7.17	1	3:45	SOIL	09/28/2013
32	CCV 12	CCV	11.97	1	3:49	WATER	09/28/2013

Calibration Standards	Chemtech Log #
pH 4.00	W1812
pH 7.00	W1813
pH 10.00	W1779
(ICV) pH 7.00	W1749
(CCV) pH 2.00	W1657
(CCV) pH 12.00	W1748

True Value of ICV = 7.0 . Control Limits [+/- 0.1].

True Value of CCV = 2.12 . Control Limits [+/- 0.1].

% Recovery Percentage Difference = _____.

LB67937



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax:

Analysis Method: 9045C Corrosivity [as pH]
Parameter: Corrosivity
Run Number: LB67937
Instrument: pH Meter


M9045C, D-pH-09

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Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : JM
Data File : LB67937.MDB


Approved By : 
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID	Raw Amt	Dil	Matrix	A. Date	Prep	Analysis			Line 1
Parameter		PPB	Final Conc	%Rec		LCL	UCL	RPD	Max RPD	Units
										Line 2
Corrosivity										
CAL	CAL			W	9/28/13					
Corrosivity (as		PASS	4.010	4.010						pH
CAL	CAL			W	9/28/13					
Corrosivity (as		PASS	7.010	7.010						pH
CAL	CAL			W	9/28/13					
Corrosivity (as		PASS	10.050	10.05						pH
ICV1	ICV1			W	9/28/13					
Corrosivity (as		PASS	7.010	7.01	100.0	90	110			pH
CCV1	CCV1			W	9/28/13					
Corrosivity (as		PASS	2.020	2.02	101.0	90	110			pH
E3897-01	P001-S-3010-1		1	S	9/28/13					
Corrosivity (as		PASS	5.360	5.360						pH
E3897-01D	P001-S-3010-1D		1	S	9/28/13					
Corrosivity (as		PASS	5.370	5.370				0.2	20	pH
E3897-02	P001-S-3011-1		1	S	9/28/13					
Corrosivity (as		PASS	4.770	4.770						pH
E3897-03	P001-S-3012-1		1	S	9/28/13					
Corrosivity (as		PASS	6.280	6.280						pH
E3897-04	P001-S-3013-1		1	S	9/28/13					
Corrosivity (as		PASS	6.210	6.210						pH
E3897-05	P001-S-4001-1		1	S	9/28/13					
Corrosivity (as		PASS	6.960	6.960						pH
E3897-06	P001-S-4002-1		1	S	9/28/13					
Corrosivity (as		PASS	7.940	7.940						pH
E3897-07	P001-S-4003-1		1	S	9/28/13					
Corrosivity (as		PASS	7.030	7.030						pH
E3897-08	P001-S-5001-1		1	S	9/28/13					
Corrosivity (as		PASS	7.620	7.620						pH
E3897-09	P001-S-5002-1		1	S	9/28/13					
Corrosivity (as		PASS	7.260	7.260						pH
CCV2	CCV2			W	9/28/13					
Corrosivity (as		PASS	2.020	2.02	101.0	90	110			pH
E3897-10	P001-S-5003-1		1	S	9/28/13					
Corrosivity (as		PASS	7.130	7.130						pH
E3897-10D	P001-S-5003-1D		1	S	9/28/13					
Corrosivity (as		PASS	7.140	7.140				0.1	20	pH
E3897-11	P001-S-5004-1		1	S	9/28/13					
Corrosivity (as		PASS	7.250	7.250						pH
E3897-12	P001-S-5005-1		1	S	9/28/13					
Corrosivity (as		PASS	6.240	6.240						pH

Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : JM
Data File : LB67937.MDB

Approved By : 
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID	Raw Amt	Dil	Matrix	A. Date	Prep	Analysis				Line 1
Parameter		PPB	Final Conc		%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Corrosivity											
E3897-13	P001-S-6004-1		1	S	9/28/13						
Corrosivity (as	PASS	7.580	7.580							pH	
E3897-14	P001-S-6005-1		1	S	9/28/13						
Corrosivity (as	PASS	6.970	6.970							pH	
E3897-15	P001-S-6005-2		1	S	9/28/13						
Corrosivity (as	PASS	6.850	6.850							pH	
E3897-16	P001-S-6006-1		1	S	9/28/13						
Corrosivity (as	PASS	7.450	7.450							pH	
E3897-17	P001-S-6007-1		1	S	9/28/13						
Corrosivity (as	PASS	6.880	6.880							pH	
E3897-18	P001-S-6008-1		1	S	9/28/13						
Corrosivity (as	PASS	5.710	5.710							pH	
CCV3	CCV3			W	9/28/13						
Corrosivity (as	PASS	2.010	2.01	101.0		90	110			pH	
E3897-19	P001-S-7001-1		1	S	9/28/13						
Corrosivity (as	PASS	8.070	8.070							pH	
E3897-19D	P001-S-7001-1D		1	S	9/28/13						
Corrosivity (as	PASS	8.080	8.080					0.1	20	pH	
E3897-20	P001-S-7002-1		1	S	9/28/13						
Corrosivity (as	PASS	7.220	7.220							pH	
E3897-21	P001-S-7003-1		1	S	9/28/13						
Corrosivity (as	PASS	7.170	7.170							pH	
CCV4	CCV4			W	9/28/13						
Corrosivity (as	PASS	11.970	11.97	100.0		90	110			pH	

Analytical Summary Report

Analysis Method: 9045C Corrosivity [as pH]
Parameter: Corrosivity
Run Number: LB67937
Instrument: pH Meter

REVIEW: Jim
REVIEWED BY: JS

Seq	Lab ID	Sample Type	Result pH	Dil	Time	Matrix	Analytical Date
1	CAL	CAL	4.01	1		WATER	9/28/13
2	CAL	CAL	7.01	1		WATER	9/28/13
3	CAL	CAL	10.05	1		WATER	9/28/13
4	ICV	ICV	7.01	1		WATER	9/28/13
5	CCV	CCV	2.02	1		WATER	9/28/13
6	E3897-01	SAM	5.36	1		SOIL	9/28/13
7	E3897-01D	DUP	5.37	1		SOIL	9/28/13
8	E3897-02	SAM	4.77	1		SOIL	9/28/13
9	E3897-03	SAM	6.28	1		SOIL	9/28/13
10	E3897-04	SAM	6.21	1		SOIL	9/28/13
11	E3897-05	SAM	6.96	1		SOIL	9/28/13
12	E3897-06	SAM	7.94	1		SOIL	9/28/13
13	E3897-07	SAM	7.03	1		SOIL	9/28/13
14	E3897-08	SAM	7.62	1		SOIL	9/28/13
15	E3897-09	SAM	7.26	1		SOIL	9/28/13
16	CCV	CCV	2.02	1		WATER	9/28/13
17	E3897-10	SAM	7.13	1		SOIL	9/28/13
18	E3897-10D	DUP	7.14	1		SOIL	9/28/13
19	E3897-11	SAM	7.25	1		SOIL	9/28/13
20	E3897-12	SAM	6.24	1		SOIL	9/28/13
21	E3897-13	SAM	7.58	1		SOIL	9/28/13
22	E3897-14	SAM	6.97	1		SOIL	9/28/13
23	E3897-15	SAM	6.85	1		SOIL	9/28/13
24	E3897-16	SAM	7.45	1		SOIL	9/28/13
25	E3897-17	SAM	6.88	1		SOIL	9/28/13
26	E3897-18	SAM	5.71	1		SOIL	9/28/13
27	CCV	CCV	2.01	1		WATER	9/28/13
28	E3897-19	SAM	8.07	1		SOIL	9/28/13
29	E3897-19D	DUP	8.08	1		SOIL	9/28/13
30	E3897-20	SAM	7.22	1		SOIL	9/28/13
31	E3897-21	SAM	7.17	1		SOIL	9/28/13
32	CCV	CCV	11.97	1		WATER	9/28/13

Jim 10-1-13

Analytical Summary Report

Analysis Method: 1030 Ignitability
Parameter: Ignitability
Run Number: LB67939
Instrument: FLAME
Analyst: JM

REVIEW BY: Jm

Seq	Lab ID	Sample Type	Result °C	Matrix	Analytical Date
1	E3897-01	SAM	YES <u>NO</u>	SOIL	9/28/2013
2	E3897-01D	DUP	YES <u>NO</u>	SOIL	9/28/2013
3	E3897-02	SAM	YES <u>NO</u>	SOIL	9/28/2013
4	E3897-03	SAM	YES <u>NO</u>	SOIL	9/28/2013
5	E3897-04	SAM	YES <u>NO</u>	SOIL	9/28/2013
6	E3897-05	SAM	YES <u>NO</u>	SOIL	9/28/2013
7	E3897-06	SAM	YES <u>NO</u>	SOIL	9/28/2013
8	E3897-07	SAM	YES <u>NO</u>	SOIL	9/28/2013
9	E3897-08	SAM	YES <u>NO</u>	SOIL	9/28/2013
10	E3897-09	SAM	YES <u>NO</u>	SOIL	9/28/2013
11	E3897-10	SAM	YES <u>NO</u>	SOIL	9/28/2013
12	E3897-11	SAM	YES <u>NO</u>	SOIL	9/28/2013
13	E3897-12	SAM	YES <u>NO</u>	SOIL	9/28/2013
14	E3897-13	SAM	YES <u>NO</u>	SOIL	9/28/2013
15	E3897-14	SAM	YES <u>NO</u>	SOIL	9/28/2013
16	E3897-15	SAM	YES <u>NO</u>	SOIL	9/28/2013
17	E3897-16	SAM	YES <u>NO</u>	SOIL	9/28/2013
18	E3897-17	SAM	YES <u>NO</u>	SOIL	9/28/2013
19	E3897-18	SAM	YES <u>NO</u>	SOIL	9/28/2013
20	E3897-19	SAM	YES <u>NO</u>	SOIL	9/28/2013
21	E3897-20	SAM	YES <u>NO</u>	SOIL	9/28/2013
22	E3897-21	SAM	YES <u>NO</u>	SOIL	9/28/2013
23	E3861-02	SAM	YES <u>NO</u>	SOIL	9/28/2013
24	E3861-02D	DUP	YES <u>NO</u>	SOIL	9/28/2013

Start time 4:00 PM
End time 8:00 PM

LB67939



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax:

Analysis Method: 1030 IGNITABILITY
Parameter: Ignitability
Run Number: LB67939
Instrument: FLAME

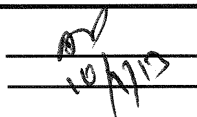
M1030-Ignitability-08

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Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : JM
Data File : LB67939.MDB

Approved By : 
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID	Raw Amt	Dil	Matrix	A. Date	Prep	Analysis				Line 1
Parameter		PPB		Final Conc	%Rec	Method	Method	LCL	UCL	RPD	Line 2
Ignitability											
E3897-01	P001-S-3010-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-01D	P001-S-3010-1D		1	S	9/28/13						
Ignitability	PASS	0.000		NO					0	20	o C
E3897-02	P001-S-3011-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-03	P001-S-3012-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-04	P001-S-3013-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-05	P001-S-4001-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-06	P001-S-4002-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-07	P001-S-4003-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-08	P001-S-5001-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-09	P001-S-5002-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-10	P001-S-5003-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-11	P001-S-5004-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-12	P001-S-5005-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-13	P001-S-6004-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-14	P001-S-6005-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-15	P001-S-6005-2		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-16	P001-S-6006-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-17	P001-S-6007-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-18	P001-S-6008-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-19	P001-S-7001-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C

Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : JM
Data File : LB67939.MDB

Approved By : [Signature]
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID	Raw Amt	Dil	Matrix	A. Date	Prep	Analysis				Line 1
Parameter		PPB		Final Conc	%Rec	Method	Method	LCL	UCL	RPD	Line 2
Ignitability											
E3897-20	P001-S-7002-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3897-21	P001-S-7003-1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3861-02	WC1		1	S	9/28/13						
Ignitability	PASS	0.000		NO							o C
E3861-02D	WC1D		1	S	9/28/13						
Ignitability	PASS	0.000		NO					0	20	o C



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax:

Analytical Summary Report

Analysis Method: 1030 IGNITABILITY
Parameter: Ignitability
Run Number: LB67939
Instrument: FLAME
Analyst:

REVIEWED BY:

Jim

Seq	Lab ID	Sample Type	Result °C	Time	Matrix	Analytical Date
1	E3897-01	SAM	NO		SOIL	9/28/13
2	E3897-01D	DUP	NO		SOIL	9/28/13
3	E3897-02	SAM	NO		SOIL	9/28/13
4	E3897-03	SAM	NO		SOIL	9/28/13
5	E3897-04	SAM	NO		SOIL	9/28/13
6	E3897-05	SAM	NO		SOIL	9/28/13
7	E3897-06	SAM	NO		SOIL	9/28/13
8	E3897-07	SAM	NO		SOIL	9/28/13
9	E3897-08	SAM	NO		SOIL	9/28/13
10	E3897-09	SAM	NO		SOIL	9/28/13
11	E3897-10	SAM	NO		SOIL	9/28/13
12	E3897-11	SAM	NO		SOIL	9/28/13
13	E3897-12	SAM	NO		SOIL	9/28/13
14	E3897-13	SAM	NO		SOIL	9/28/13
15	E3897-14	SAM	NO		SOIL	9/28/13
16	E3897-15	SAM	NO		SOIL	9/28/13
17	E3897-16	SAM	NO		SOIL	9/28/13
18	E3897-17	SAM	NO		SOIL	9/28/13
19	E3897-18	SAM	NO		SOIL	9/28/13
20	E3897-19	SAM	NO		SOIL	9/28/13
21	E3897-20	SAM	NO		SOIL	9/28/13
22	E3897-21	SAM	NO		SOIL	9/28/13
23	E3861-02	SAM	NO		SOIL	9/28/13
24	E3861-02D	DUP	NO		SOIL	9/28/13

Jim 10-1-13

Paghe # 1 of 1

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH
 284 Sheffield Street,
 Mountainside, NJ 07092
 Reviewed by : HM

9/30/2013 13:04

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	95.056	0.0	0.090	
ICB1	1.385	0.0	0.005	
CCV1	246.777	0.0	0.228	
CCB1	1.312	0.0	0.005	
LB67946BLS	1.351	0.0	0.005	
LB67946BSS	192.340	0.0	0.178	
E3896-12	1.052	0.0	0.005	
E3896-13	0.820	0.0	0.004	
E3896-14	0.542	0.0	0.004	
E3896-15	0.600	0.0	0.004	
E3897-01	1.088	0.0	0.005	
CCV2	247.736	0.0	0.228	
CCB2	1.255	0.0	0.005	
E3897-02	1.269	0.0	0.005	
E3897-03	-0.255	0.0	0.003	
E3861-02	0.552	0.0	0.004	
E3861-02D	0.592	0.0	0.004	
E3861-02S	11.627	0.0	0.014	
CCV3	258.622	0.0	0.238	
CCB3	1.492	0.0	0.005	

N	20
Mean	53.261
SD	96.9547
CV%	182.04

Aquakem v. 7.2AQ1

Results from time period:

Mon Sep 30 12:27:32 2013

Mon Sep 30 12:58:38 2013

Sample Id	Sam/Ctr/c	Test short name	Test type	Result	Result unit	Result date and time
0.0PPBCN	A	ReactiveCN	P	0.9067	µg/l	9/30/2013 9:47:06
5.0PPBCN	A	ReactiveCN	P	4.9433	µg/l	9/30/2013 9:47:07
10PPBCN	A	ReactiveCN	P	9.8219	µg/l	9/30/2013 9:47:08
50PPBCN	A	ReactiveCN	P	50.9385	µg/l	9/30/2013 9:47:09
100PPBCN	A	ReactiveCN	P	99.0757	µg/l	9/30/2013 9:47:10
250PPBCN	A	ReactiveCN	P	248.4376	µg/l	9/30/2013 9:47:11
500PPBCN	A	ReactiveCN	P	500.8764	µg/l	9/30/2013 9:47:12
LOW	S	ReactiveCN	P	10.919	µg/l	9/30/2013 10:06:08
HIGH	S	ReactiveCN	P	517.8386	µg/l	9/30/2013 10:06:09
ICV1	S	ReactiveCN	P	95.0559	µg/l	9/30/2013 12:27:32
ICB1	S	ReactiveCN	P	1.3851	µg/l	9/30/2013 12:27:33
CCV1	S	ReactiveCN	P	246.777	µg/l	9/30/2013 12:27:34
CCB1	S	ReactiveCN	P	1.3116	µg/l	9/30/2013 12:27:35
LB67946BLS	S	ReactiveCN	P	1.3515	µg/l	9/30/2013 12:27:36
LB67946BSS	S	ReactiveCN	P	192.3404	µg/l	9/30/2013 12:27:37
E3896-12	S	ReactiveCN	P	1.052	µg/l	9/30/2013 12:27:41
E3896-13	S	ReactiveCN	P	0.8196	µg/l	9/30/2013 12:27:42
E3896-14	S	ReactiveCN	P	0.5417	µg/l	9/30/2013 12:34:11
E3896-15	S	ReactiveCN	P	0.6001	µg/l	9/30/2013 12:34:12
E3897-01	S	ReactiveCN	P	1.0878	µg/l	9/30/2013 12:34:13
CCV2	S	ReactiveCN	P	247.7357	µg/l	9/30/2013 12:34:14
CCB2	S	ReactiveCN	P	1.2552	µg/l	9/30/2013 12:34:15
E3897-02	S	ReactiveCN	P	1.2693	µg/l	9/30/2013 12:34:16
E3897-03	S	ReactiveCN	P	-0.2555	µg/l	9/30/2013 12:34:17
E3861-02	S	ReactiveCN	P	0.5516	µg/l	9/30/2013 12:58:34
E3861-02D	S	ReactiveCN	P	0.5917	µg/l	9/30/2013 12:58:35
E3861-02S	S	ReactiveCN	P	11.6273	µg/l	9/30/2013 12:58:36
CCV3	S	ReactiveCN	P	258.6219	µg/l	9/30/2013 12:58:37
CCB3	S	ReactiveCN	P	1.4923	µg/l	9/30/2013 12:58:38

Test results

Aquakem 7.2AQ1

Page: 1

CHEMTECH
284 Sheffield Street,
Mountainside, NJ 07092
Reviewed by : HM

9/30/2013 10:38

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
LOW	10.919	0.0	0.014	
HIGH	517.839	0.0	0.474	Test limit high

N	2
Mean	264.379
SD	358.4463
CV%	135.58

Calibration results

Aquakem 7.2AQ1

Page:

CHEMTECH
284 Sheffield Street,
Mountainside, NJ 07092
Reviewed by : HM

9/30/2013 9:50

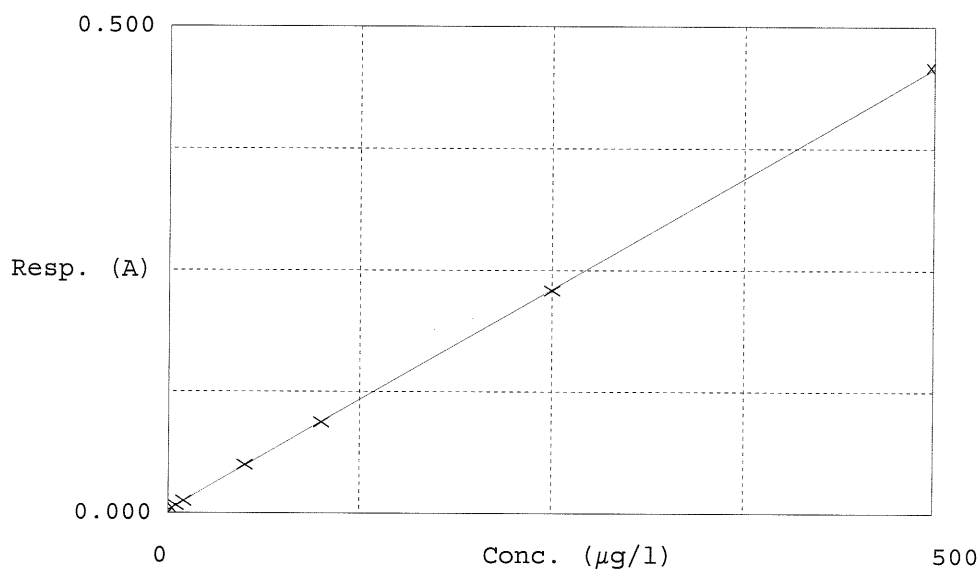
Test Total CN

Accepted 9/30/2013 9:49

Factor 1102
Bias 0.004

Coeff. of det. 0.999972

Errors




	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.004	0.9067	0.0000	
2	5.0PPBCN	0.008	4.9433	5.0000	
3	10PPBCN	0.013	9.8219	10.0000	
4	50PPBCN	0.050	50.9385	50.0000	
5	100PPBCN	0.094	99.0757	100.0000	
6	250PPBCN	0.229	248.4376	250.0000	
7	500PPBCN	0.458	500.8764	500.0000	

Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : HM
Data File : LB67946.csv

Approved By : 
Approved Date : 10/1/13
Worksheet # :

M9012 A-B - Total, Amenable and reactive cyanide-13


Lab Sample ID	Client ID	Raw Amt PPB	Dil	Matrix	A. Date	Prep Method	Analysis Method	Line 1
Parameter			Final Conc	%Rec		LCL	UCL	Line 2
Reactive Cyanide								
0.0PPBCN	0.0PPBCN			W	9/30/13			
Reactive Cyanide	PASS	0.907	0.001					mg/L
5.0PPBCN	5.0PPBCN			W	9/30/13			
Reactive Cyanide	PASS	4.943	0.005					mg/L
10PPBCN	10PPBCN			W	9/30/13			
Reactive Cyanide	PASS	9.822	0.010					mg/L
50PPBCN	50PPBCN			W	9/30/13			
Reactive Cyanide	PASS	50.938	0.051					mg/L
100PPBCN	100PPBCN			W	9/30/13			
Reactive Cyanide	PASS	99.076	0.099					mg/L
250PPBCN	250PPBCN			W	9/30/13			
Reactive Cyanide	PASS	248.438	0.248					mg/L
500PPBCN	500PPBCN			W	9/30/13			
Reactive Cyanide	PASS	500.876	0.501					mg/L
LOW	LOW			W	9/30/13			
Reactive Cyanide	PASS	10.919	0.011					mg/L
HIGH	HIGH			W	9/30/13			
Reactive Cyanide	PASS	517.839	0.518					mg/L
ICV1	ICV1			W	9/30/13			
Reactive Cyanide	PASS	95.056	0.10	100.0	85	115		mg/L
ICB1	ICB1			W	9/30/13			
Reactive Cyanide	PASS	1.385	0.001				+/-0.0050	mg/L
CCV1	CCV1			W	9/30/13			
Reactive Cyanide	PASS	246.777	0.25	100.0	90	110		mg/L
CCB1	CCB1			W	9/30/13			
Reactive Cyanide	PASS	1.312	0.001				+/-0.0050	mg/L
LB67946BLS	LB67946BLS			S	9/30/13			
Reactive Cyanide	PASS	1.352	0.014				+/-0.0500	mg/Kg
LB67946BSS	LB67946BSS			S	9/30/13			
Reactive Cyanide	PASS	192.340	1.92	96.0	85.00	115.00		mg/Kg
E3896-12	P001-S-2002-1		1	S	9/30/13			
Reactive Cyanide	PASS	1.052	0.011					mg/Kg
E3896-13	P001-S-2003-1		1	S	9/30/13			
Reactive Cyanide	PASS	0.820	0.008					mg/Kg
E3896-14	P001-S-3004-1		1	S	9/30/13			
Reactive Cyanide	PASS	0.542	0.005					mg/Kg
E3896-15	P001-S-3005-1		1	S	9/30/13			
Reactive Cyanide	PASS	0.600	0.006					mg/Kg
E3897-01	P001-S-3010-1		1	S	9/30/13			
Reactive Cyanide	PASS	1.088	0.011					mg/Kg

flagdata2.rpt

Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : HM
Data File : LB67946.csv

Approved By : 
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID		Raw Amt	Dil	Matrix	A. Date	Prep	Analysis		Line 1
Parameter			PPB		Final Conc	%Rec	Method	Method		Line 2
Reactive Cyanide										
CCV2	CCV2				W	9/30/13				
Reactive Cyanide		PASS	247.736		0.25	100.0	90	110		mg/L
CCB2	CCB2				W	9/30/13				
Reactive Cyanide		PASS	1.255		0.001			+/-0.0050		mg/L
E3897-02	P001-S-3011-1			1	S	9/30/13				
Reactive Cyanide		PASS	1.269		0.013					mg/Kg
E3897-03	P001-S-3012-1			1	S	9/30/13				
Reactive Cyanide		PASS	-0.255		-0.003					mg/Kg
E3861-02	WC1			1	S	9/30/13				
Reactive Cyanide		PASS	0.552		0.006					mg/Kg
E3861-02D	WC1D			1	S	9/30/13				
Reactive Cyanide		PASS	0.592		0.006			0	20	mg/Kg
E3861-02S	WC1S			1	S	9/30/13				
Reactive Cyanide		FAIL	11.627		0.12	30.0	48	158		mg/Kg
CCV3	CCV3				W	9/30/13				
Reactive Cyanide		PASS	258.622		0.26	104.0	90	110		mg/L
CCB3	CCB3				W	9/30/13				
Reactive Cyanide		PASS	1.492		0.001			+/-0.0050		mg/L

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH
284 Sheffield Street,
Mountainside, NJ 07092
Reviewed by : HM

9/30/2013 14:59

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	96.234	0.0	0.091	
ICB1	1.407	0.0	0.005	
CCV1	246.922	0.0	0.228	
CCB1	1.581	0.0	0.005	
LB67947BLS	1.416	0.0	0.005	
LB67947BSS	191.447	0.0	0.177	
E3897-04	0.673	0.0	0.004	
E3897-04D	0.660	0.0	0.004	
E3897-04S	4.153	0.0	0.007	
E3897-05	1.318	0.0	0.005	
E3897-06	1.700	0.0	0.005	
E3897-07	0.908	0.0	0.004	
E3897-08	1.257	0.0	0.005	
E3897-09	1.323	0.0	0.005	
CCV2	247.540	0.0	0.228	
CCB2	1.463	0.0	0.005	
E3897-10	1.692	0.0	0.005	
E3897-11	1.759	0.0	0.005	
E3897-12	1.246	0.0	0.005	
E3897-13	1.409	0.0	0.005	
E3897-14	1.202	0.0	0.005	
E3897-15	1.201	0.0	0.005	
E3897-16	1.274	0.0	0.005	
E3897-17	1.161	0.0	0.005	
E3897-18	1.042	0.0	0.005	
E3897-19	1.881	0.0	0.005	
CCV3	253.606	0.0	0.234	
CCB3	1.720	0.0	0.005	
E3897-20	1.276	0.0	0.005	
E3897-21	1.192	0.0	0.005	
CCV4	252.317	0.0	0.233	
CCB4	1.623	0.0	0.005	

N 32
Mean 41.425
SD 88.2244
CV% 212.97

Aquakem v. 7.2AQ1

Results from time period:

Mon Sep 30 13:42:21 2013

Mon Sep 30 14:37:43 2013

Sample Id	Sam/Ctr/c/	Test short nam	Test type	Result	Result unit	Result date and time
0.0PPBCN	A	ReactiveCN	P	0.9067	µg/l	9/30/2013 9:47:06
5.0PPBCN	A	ReactiveCN	P	4.9433	µg/l	9/30/2013 9:47:07
10PPBCN	A	ReactiveCN	P	9.8219	µg/l	9/30/2013 9:47:08
50PPBCN	A	ReactiveCN	P	50.9385	µg/l	9/30/2013 9:47:09
100PPBCN	A	ReactiveCN	P	99.0757	µg/l	9/30/2013 9:47:10
250PPBCN	A	ReactiveCN	P	248.4376	µg/l	9/30/2013 9:47:11
500PPBCN	A	ReactiveCN	P	500.8764	µg/l	9/30/2013 9:47:12
LOW	S	ReactiveCN	P	10.919	µg/l	9/30/2013 10:06:08
HIGH	S	ReactiveCN	P	517.8386	µg/l	9/30/2013 10:06:09
ICV1	S	ReactiveCN	P	96.2341	µg/l	9/30/2013 13:42:21
ICB1	S	ReactiveCN	P	1.4066	µg/l	9/30/2013 13:42:22
CCV1	S	ReactiveCN	P	246.9215	µg/l	9/30/2013 13:42:23
CCB1	S	ReactiveCN	P	1.5809	µg/l	9/30/2013 13:42:24
LB67947BLS	S	ReactiveCN	P	1.4158	µg/l	9/30/2013 13:42:25
LB67947BSS	S	ReactiveCN	P	191.4465	µg/l	9/30/2013 13:42:26
E3897-04	S	ReactiveCN	P	0.673	µg/l	9/30/2013 13:42:27
E3897-04D	S	ReactiveCN	P	0.6604	µg/l	9/30/2013 13:42:28
E3897-04S	S	ReactiveCN	P	4.153	µg/l	9/30/2013 13:42:29
E3897-05	S	ReactiveCN	P	1.3179	µg/l	9/30/2013 13:42:30
E3897-06	S	ReactiveCN	P	1.7005	µg/l	9/30/2013 13:42:31
E3897-07	S	ReactiveCN	P	0.9084	µg/l	9/30/2013 13:49:54
E3897-08	S	ReactiveCN	P	1.2566	µg/l	9/30/2013 13:49:55
E3897-09	S	ReactiveCN	P	1.3227	µg/l	9/30/2013 13:49:56
CCV2	S	ReactiveCN	P	247.5397	µg/l	9/30/2013 13:49:57
CCB2	S	ReactiveCN	P	1.4626	µg/l	9/30/2013 13:49:58
E3897-10	S	ReactiveCN	P	1.6918	µg/l	9/30/2013 13:49:59
E3897-11	S	ReactiveCN	P	1.7594	µg/l	9/30/2013 13:50:00
E3897-12	S	ReactiveCN	P	1.2458	µg/l	9/30/2013 13:50:01
E3897-13	S	ReactiveCN	P	1.4094	µg/l	9/30/2013 13:50:02
E3897-14	S	ReactiveCN	P	1.2024	µg/l	9/30/2013 13:50:03
E3897-15	S	ReactiveCN	P	1.2015	µg/l	9/30/2013 13:50:04
E3897-16	S	ReactiveCN	P	1.2737	µg/l	9/30/2013 13:57:01
E3897-17	S	ReactiveCN	P	1.1612	µg/l	9/30/2013 13:57:02
E3897-18	S	ReactiveCN	P	1.0424	µg/l	9/30/2013 13:57:03
E3897-19	S	ReactiveCN	P	1.8805	µg/l	9/30/2013 13:57:04
CCV3	S	ReactiveCN	P	253.606	µg/l	9/30/2013 13:57:05
CCB3	S	ReactiveCN	P	1.7198	µg/l	9/30/2013 13:57:06
E3897-20	S	ReactiveCN	P	1.2762	µg/l	9/30/2013 13:57:07
E3897-21	S	ReactiveCN	P	1.1916	µg/l	9/30/2013 13:57:08
CCV4	S	ReactiveCN	P	252.317	µg/l	9/30/2013 13:57:09
CCB4	S	ReactiveCN	P	1.6229	µg/l	9/30/2013 13:57:10

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Test results	Aquakem 7.2AQ1	Page: 1
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CHEMTECH
284 Sheffield Street,
Mountainside, NJ 07092
Reviewed by : HM

9/30/2013 10:38

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
LOW	10.919	0.0	0.014	
HIGH	517.839	0.0	0.474	Test limit high

N	2
Mean	264.379
SD	358.4463
CV%	135.58

Calibration results

Aquakem 7.2AQ1

Page:

CHEMTECH
284 Sheffield Street,
Mountainside, NJ 07092
Reviewed by : LM

9/30/2013 9:50

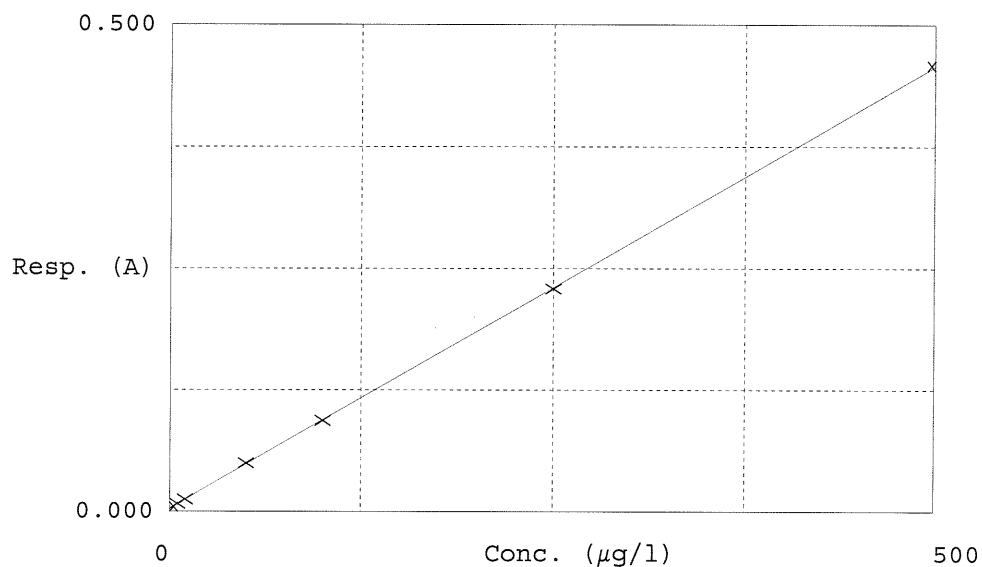
Test Total CN

Accepted 9/30/2013 9:49

Factor 1102
Bias 0.004

Coeff. of det. 0.999972

Errors




	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.004	0.9067	0.0000	
2	5.0PPBCN	0.008	4.9433	5.0000	
3	10PPBCN	0.013	9.8219	10.0000	
4	50PPBCN	0.050	50.9385	50.0000	
5	100PPBCN	0.094	99.0757	100.0000	
6	250PPBCN	0.229	248.4376	250.0000	
7	500PPBCN	0.458	500.8764	500.0000	

Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : HM
Data File : LB67947.csv

Approved By : 
Approved Date : 10/1/13
Worksheet # :

M9012 A-B Total, Ammoniacal and Reactive Cyanide-13


Lab Sample ID	Client ID		Raw Amt	Dil	Matrix	A. Date	Prep	Analysis				Line 1
Parameter			PPB		Final Conc	%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Reactive Cyanide												
0.0PPBCN	0.0PPBCN				W	9/30/13						
Reactive Cyanide		PASS	0.907		0.001						mg/L	
5.0PPBCN	5.0PPBCN				W	9/30/13						
Reactive Cyanide		PASS	4.943		0.005						mg/L	
10PPBCN	10PPBCN				W	9/30/13						
Reactive Cyanide		PASS	9.822		0.010						mg/L	
50PPBCN	50PPBCN				W	9/30/13						
Reactive Cyanide		PASS	50.938		0.051						mg/L	
100PPBCN	100PPBCN				W	9/30/13						
Reactive Cyanide		PASS	99.076		0.099						mg/L	
250PPBCN	250PPBCN				W	9/30/13						
Reactive Cyanide		PASS	248.438		0.248						mg/L	
500PPBCN	500PPBCN				W	9/30/13						
Reactive Cyanide		PASS	500.876		0.501						mg/L	
LOW	LOW				W	9/30/13						
Reactive Cyanide		PASS	10.919		0.011						mg/L	
HIGH	HIGH				W	9/30/13						
Reactive Cyanide		PASS	517.839		0.518						mg/L	
ICV1	ICV1				W	9/30/13						
Reactive Cyanide		PASS	96.234		0.10	100.0	85	115			mg/L	
ICB1	ICB1				W	9/30/13						
Reactive Cyanide		PASS	1.407		0.001			+/-0.0050			mg/L	
CCV1	CCV1				W	9/30/13						
Reactive Cyanide		PASS	246.921		0.25	100.0	90	110			mg/L	
CCB1	CCB1				W	9/30/13						
Reactive Cyanide		PASS	1.581		0.002			+/-0.0050			mg/L	
LB67947BLS	LB67947BLS				S	9/30/13						
Reactive Cyanide		PASS	1.416		0.014			+/-0.0500			mg/Kg	
LB67947BSS	LB67947BSS				S	9/30/13						
Reactive Cyanide		PASS	191.447		1.91	96.0	85.00	115.00			mg/Kg	
E3897-04	P001-S-3013-1			1	S	9/30/13						
Reactive Cyanide		PASS	0.673		0.007						mg/Kg	
E3897-04D	P001-S-3013-1D			1	S	9/30/13						
Reactive Cyanide		PASS	0.660		0.007				0	20	mg/Kg	
E3897-04S	P001-S-3013-1S			1	S	9/30/13						
Reactive Cyanide		FAIL	4.153		0.04	0.0	48	158			mg/Kg	
E3897-05	P001-S-4001-1			1	S	9/30/13						
Reactive Cyanide		PASS	1.318		0.013						mg/Kg	
E3897-06	P001-S-4002-1			1	S	9/30/13						
Reactive Cyanide		PASS	1.701		0.017						mg/Kg	

flagdata2.rpt

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Analytical Review Report

Date Printed : 10/1/13
Analyst : HM
Data File : LB67947.csv

Approved By : 
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID		Raw Amt	Dil	Matrix	A. Date	Prep	Analysis		Line 1
Parameter			PPB		Final Conc	%Rec	Method	Method		Line 2
Reactive Cyanide										
E3897-07	P001-S-4003-1			1	S	9/30/13				
Reactive Cyanide	PASS		0.908		0.009					mg/Kg
E3897-08	P001-S-5001-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.257		0.013					mg/Kg
E3897-09	P001-S-5002-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.323		0.013					mg/Kg
CCV2	CCV2				W	9/30/13				
Reactive Cyanide	PASS		247.540		0.25	100.0	90	110		mg/L
CCB2	CCB2				W	9/30/13				
Reactive Cyanide	PASS		1.463		0.001			+/-0.0050		mg/L
E3897-10	P001-S-5003-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.692		0.017					mg/Kg
E3897-11	P001-S-5004-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.759		0.018					mg/Kg
E3897-12	P001-S-5005-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.246		0.012					mg/Kg
E3897-13	P001-S-6004-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.409		0.014					mg/Kg
E3897-14	P001-S-6005-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.202		0.012					mg/Kg
E3897-15	P001-S-6005-2			1	S	9/30/13				
Reactive Cyanide	PASS		1.202		0.012					mg/Kg
E3897-16	P001-S-6006-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.274		0.013					mg/Kg
E3897-17	P001-S-6007-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.161		0.012					mg/Kg
E3897-18	P001-S-6008-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.042		0.010					mg/Kg
E3897-19	P001-S-7001-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.880		0.019					mg/Kg
CCV3	CCV3				W	9/30/13				
Reactive Cyanide	PASS		253.606		0.25	100.0	90	110		mg/L
CCB3	CCB3				W	9/30/13				
Reactive Cyanide	PASS		1.720		0.002			+/-0.0050		mg/L
E3897-20	P001-S-7002-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.276		0.013					mg/Kg
E3897-21	P001-S-7003-1			1	S	9/30/13				
Reactive Cyanide	PASS		1.192		0.012					mg/Kg
CCV4	CCV4				W	9/30/13				
Reactive Cyanide	PASS		252.317		0.25	100.0	90	110		mg/L

flagdata2.rpt

Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : HM
Data File : LB67947.csv

Approved By : AS
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID	Raw Amt	Dil	Matrix	A. Date	Prep	Analysis			Line 1
Parameter		PPB		Final Conc	%Rec	Method	Method			Line 2
Reactive Cyanide										
CCB4	CCB4			W	9/30/13					
Reactive Cyanide		PASS	1.623	0.002			+/-0.0050		mg/L	

Analytical Summary Report

Analysis Method: 9034 Reactive Sulfide
Parameter: Reactive Sulfide
Run Number: LB67949
Instrument: Titrametric

ANALYST: Jm
REVIEWED BY: JS

Standard Type: LCSS Lot #: WP28967 Concentration: 25 PPM
Titrant 1 = W1757 Titrant 2 = Sodium Thiosulfate W1700
Normality 1 = 0.025 Normality 2 = 0.025
Constant = 16000 starch - W1805
Formula = ((Titrant 1 * Normality 1) - (Titrant 2 * Normality 2)) * Constant / ml of Sample

Seq	Lab ID	Sample Type	mg of Sample	mL Titrant 1	Normality 1	mL Titrant 2	Normality 2	Initial pH	Analytical Date
1	LB67949BLS	MB	5.00	5.00	0.025	5.00	0.025		9-28-13
2	LB67949BSS	LCS	5.00	5.00		2.26			
3	E3861-02	SAM	5.01	5.00		5.00			
4	E3861-02D	DUP	5.01	5.00		5.00			
5	E3861-02S	MS	5.01	5.00		2.28			
6	E3896-12	SAM	5.01	5.00		4.48	4.60		
7	E3896-13	SAM	5.00	5.00		4.42	4.50		
8	E3896-14	SAM	5.01	5.00		4.40	4.52		
9	E3896-15	SAM	5.02	5.00		4.52			
10	E3897-01	SAM	5.01	5.00		4.48			
11	E3897-02	SAM	5.02	5.00		4.42			
12	E3897-03	SAM	5.01	5.00		4.40			

Jm 9-28-13

Start time 11:45 AM
End time 12:30 PM

LB67949



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-892


Analysis Method: 9034 Reactive Sulfide
Parameter: Reactive Sulfide
Run Number: LB67949
Instrument: Titrimetric

M 9034 - SM 4500 S F - Sulfide - 09

Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : jm
Data File : LB67949.MDB

Approved By : 
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID	Raw Amt PPB	Dil	Matrix	A. Date	Prep Method	Analysis Method			Line 1	
Parameter			Final Conc		%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Reactive Sulfide											
LB67949BLS	LB67949BLS			S	9/28/13						
Reactive Sulfide	PASS	0.000	0.00				+/-10.0000			mg/Kg	
LB67949BSS	LB67949BSS			S	9/28/13						
Reactive Sulfide	PASS	219.200	219.00		88.0	80.00	120.00			mg/Kg	
E3861-02	WC1		1	S	9/28/13						
Reactive Sulfide	PASS	0.000	0.000							mg/Kg	
E3861-02D	WC1D		1	S	9/28/13						
Reactive Sulfide	PASS	0.000	0.00					0	20	mg/Kg	
E3861-02S	WC1S		1	S	9/28/13						
Reactive Sulfide	PASS	217.166	217.0		87.0	75	125			mg/Kg	
E3896-12	P001-S-2002-1		1	S	9/28/13						
Reactive Sulfide	PASS	31.936	32.00							mg/Kg	
E3896-13	P001-S-2003-1		1	S	9/28/13						
Reactive Sulfide	PASS	40.000	40.00							mg/Kg	
E3896-14	P001-S-3004-1		1	S	9/28/13						
Reactive Sulfide	PASS	38.323	38.00							mg/Kg	
E3896-15	P001-S-3005-1		1	S	9/28/13						
Reactive Sulfide	PASS	38.247	38.00							mg/Kg	
E3897-01	P001-S-3010-1		1	S	9/28/13						
Reactive Sulfide	PASS	41.517	42.00							mg/Kg	
E3897-02	P001-S-3011-1		1	S	9/28/13						
Reactive Sulfide	PASS	46.215	46.00							mg/Kg	
E3897-03	P001-S-3012-1		1	S	9/28/13						
Reactive Sulfide	PASS	47.904	48.00							mg/Kg	



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-892

Analytical Summary Report

Analysis Method: 9034 Reactive Sulfide
Parameter: Reactive Sulfide
Run Number: LB67949
Instrument: Titrimetric

ANALYST RUN: Jm
REVIEWED BY: 106

Standard Type: LCSS / LCSD Lot #: WP28967 Concentration: 25PPM
Titrant 1 = Iodine Solutions W1257 Titrant 2 = Sodium Thiosulphate W1200
Normality 1 = 0.0250N Normality 2 = 0.0250N
Constant = 16000 starch W1805

Formula = ((Titrant 1 * Normality 1) - (Titrant 2 * Normality 2)) * Constant / ml of Sample

Seq	Lab ID	Sample Type	mlg of Sample	ml Titrant 1	Normality 1	ml Titrant 2	Normality 2	Result ppm/pph	Analytical Date
1	LB67949BLS	MB	5.00	5.00	0.025	5.00	0.025	0.000	9/28/13
2	LB67949BSS	LCS	5.00	5.00	0.025	2.26	0.025	219.200	9/28/13
3	E3861-02	SAM	5.01	5.00	0.025	5.00	0.025	0.000	9/28/13
4	E3861-02D	DUP	5.01	5.00	0.025	5.00	0.025	0.000	9/28/13
5	E3861-02S	MS	5.01	5.00	0.025	2.28	0.025	217.166	9/28/13
6	E3896-12	SAM	5.01	5.00	0.025	4.60	0.025	31.936	9/28/13
7	E3896-13	SAM	5.00	5.00	0.025	4.50	0.025	40.000	9/28/13
8	E3896-14	SAM	5.01	5.00	0.025	4.52	0.025	38.323	9/28/13
9	E3896-15	SAM	5.02	5.00	0.025	4.52	0.025	38.247	9/28/13
10	E3897-01	SAM	5.01	5.00	0.025	4.48	0.025	41.517	9/28/13
11	E3897-02	SAM	5.02	5.00	0.025	4.42	0.025	46.215	9/28/13
12	E3897-03	SAM	5.01	5.00	0.025	4.40	0.025	47.904	9/28/13

Analytical Summary Report

Analysis Method: 9034 Reactive Sulfide
Parameter: Reactive Sulfide
Run Number: LB67950
Instrument: Titrametric

ANALYST : jm
REVIEWED BY: AS

Standard Type: LCSS Lot #: WP28969 Concentration: 25 PPM
Titrant 1 = Iodine W1757 Titrant 2 = Sodium Thiosulfate W1700
Normality 1 = 0.025 Normality 2 = 0.025
Constant = 16000 starch W1805

Formula = ((Titrant 1 * Normality 1) - (Titrant 2 * Normality 2)) * Constant / ml of Sample

Seq	Lab ID	Sample Type	mlg of Sample	ml Titrant 1	Normality 1	ml Titrant 2	Normality 2	Initial pH	Analytical Date
1	LB67950BLS	MB	5.00	5.00	0.025	5.00	0.025		9-28-13
2	LB67950BSS	LCS	5.00	5.00		2.28			
3	E3897-04	SAM	5.01	5.00		4.42			
4	E3897-04D	DUP	5.01	5.00		4.42			
5	E3897-04S	MS	5.01	5.00		1.74			
6	E3897-05	SAM	5.01	5.06		4.64			
7	E3897-06	SAM	5.02	5.00		4.66			
8	E3897-07	SAM	5.01	5.00		4.50			
9	E3897-08	SAM	5.02	5.00		4.44			
10	E3897-09	SAM	5.02	5.00		4.48			
11	E3897-10	SAM	5.02	5.00		4.52			
12	E3897-11	SAM	5.02	5.00		4.46			
13	E3897-12	SAM	5.01	5.00		4.42			
14	E3897-13	SAM	5.01	5.00		4.44			
15	E3897-14	SAM	5.01	5.00		4.46			
16	E3897-15	SAM	5.01	5.00		4.22			
17	E3897-16	SAM	5.01	5.00		4.24			
18	E3897-17	SAM	5.01	5.00		4.22			
19	E3897-18	SAM	5.02	5.00		4.62			
20	E3897-19	SAM	5.02	5.00		4.70			
21	E3897-20	SAM	5.02	5.00		4.78			
22	E3897-21	SAM	5.02	5.00		4.84			

jm 9-28-13

start time - 6:45 PM
end time - 7:55 PM

LB67950



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-892


Analysis Method: 9034 Reactive Sulfide
Parameter: Reactive Sulfide
Run Number: LB67950
Instrument: Titrimetric

M9034 - SM4500 S F - Sulfide - Og

Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : JM
Data File : LB67950.MDB

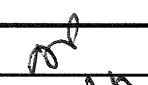
Approved By : 
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID		Raw Amt	Dil	Matrix	A. Date	Prep	Analysis			Line 1	
Parameter			PPB		Final Conc	%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Reactive Sulfide												
LB67950BLS	LB67950BLS				S	9/28/13						
Reactive Sulfide	PASS		0.000		0.00			+/-10.0000			mg/Kg	
LB67950BSS	LB67950BSS				S	9/28/13						
Reactive Sulfide	PASS		217.600		218.00	87.0	80.00	120.00			mg/Kg	
E3897-04	P001-S-3013-1			1	S	9/28/13						
Reactive Sulfide	PASS		46.307		46.00						mg/Kg	
E3897-04D	P001-S-3013-1D			1	S	9/28/13						
Reactive Sulfide	PASS		46.307		46.00				0	20	mg/Kg	
E3897-04S	P001-S-3013-1S			1	S	9/28/13						
Reactive Sulfide	PASS		260.279		260.0	86.0	75	125			mg/Kg	
E3897-05	P001-S-4001-1			1	S	9/28/13						
Reactive Sulfide	PASS		28.743		29.00						mg/Kg	
E3897-06	P001-S-4002-1			1	S	9/28/13						
Reactive Sulfide	PASS		27.092		27.00						mg/Kg	
E3897-07	P001-S-4003-1			1	S	9/28/13						
Reactive Sulfide	PASS		39.920		40.00						mg/Kg	
E3897-08	P001-S-5001-1			1	S	9/28/13						
Reactive Sulfide	PASS		44.622		45.00						mg/Kg	
E3897-09	P001-S-5002-1			1	S	9/28/13						
Reactive Sulfide	PASS		41.434		41.00						mg/Kg	
E3897-10	P001-S-5003-1			1	S	9/28/13						
Reactive Sulfide	PASS		38.247		38.00						mg/Kg	
E3897-11	P001-S-5004-1			1	S	9/28/13						
Reactive Sulfide	PASS		43.028		43.00						mg/Kg	
E3897-12	P001-S-5005-1			1	S	9/28/13						
Reactive Sulfide	PASS		46.307		46.00						mg/Kg	
E3897-13	P001-S-6004-1			1	S	9/28/13						
Reactive Sulfide	PASS		44.711		45.00						mg/Kg	
E3897-14	P001-S-6005-1			1	S	9/28/13						
Reactive Sulfide	PASS		43.114		43.00						mg/Kg	
E3897-15	P001-S-6005-2			1	S	9/28/13						
Reactive Sulfide	PASS		62.275		62.00						mg/Kg	
E3897-16	P001-S-6006-1			1	S	9/28/13						
Reactive Sulfide	PASS		60.679		61.00						mg/Kg	
E3897-17	P001-S-6007-1			1	S	9/28/13						
Reactive Sulfide	PASS		62.275		62.00						mg/Kg	
E3897-18	P001-S-6008-1			1	S	9/28/13						
Reactive Sulfide	PASS		30.279		30.00						mg/Kg	
E3897-19	P001-S-7001-1			1	S	9/28/13						
Reactive Sulfide	PASS		23.904		24.00						mg/Kg	

Chemtech Consulting Group

Analytical Review Report

Date Printed : 10/1/13
Analyst : JM
Data File : LB67950.MDB

Approved By : 
Approved Date : 10/1/13
Worksheet # :

Lab Sample ID	Client ID	Raw Amt	Dil	Matrix	A. Date	Prep Method	Analysis Method				Line 1
Parameter		PPB		Final Conc	%Rec	LCL	UCL	RPD	Max RPD	Units	Line 2
Reactive Sulfide											
E3897-20	P001-S-7002-1		1	S	9/28/13						
Reactive Sulfide	PASS	17.530		18.00						mg/Kg	
E3897-21	P001-S-7003-1		1	S	9/28/13						
Reactive Sulfide	PASS	12.749		13.00						mg/Kg	



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-892

Analytical Summary Report

Analysis Method: 9034 Reactive Sulfide
Parameter: Reactive Sulfide
Run Number: LB67950
Instrument: Titrimetric

ANALYST RUN: Jm
REVIEWED BY: 10

Standard Type: LCSS / LCSD Lot #: WP28969 Concentration: 25PPM
Titrant 1 = Iodine Solutions W1757 Titrant 2 = Sodium Thiosulphate W1700
Normality 1 = 0.0250N Normality 2 = 0.0250N
Constant = 16000 starch W1805
Formula = ((Titrant 1 * Normality 1) - (Titrant 2 * Normality 2)) * Constant / ml of Sample

Seq	Lab ID	Sample Type	mg of Sample	ml Titrant 1	Normality 1	ml Titrant 2	Normality 2	Result ppm/ppb	Analytical Date
1	LB67950BLS	MB	5.00	5.00	0.025	5.00	0.025	0.000	9/28/13
2	LB67950BSS	LCS	5.00	5.00	0.025	2.28	0.025	217.600	9/28/13
3	E3897-04	SAM	5.01	5.00	0.025	4.42	0.025	46.307	9/28/13
4	E3897-04D	DUP	5.01	5.00	0.025	4.42	0.025	46.307	9/28/13
5	E3897-04S	MS	5.01	5.00	0.025	1.74	0.025	260.279	9/28/13
6	E3897-05	SAM	5.01	5.00	0.025	4.64	0.025	28.743	9/28/13
7	E3897-06	SAM	5.02	5.00	0.025	4.66	0.025	27.092	9/28/13
8	E3897-07	SAM	5.01	5.00	0.025	4.50	0.025	39.920	9/28/13
9	E3897-08	SAM	5.02	5.00	0.025	4.44	0.025	44.622	9/28/13
10	E3897-09	SAM	5.02	5.00	0.025	4.48	0.025	41.434	9/28/13
11	E3897-10	SAM	5.02	5.00	0.025	4.52	0.025	38.247	9/28/13
12	E3897-11	SAM	5.02	5.00	0.025	4.46	0.025	43.028	9/28/13
13	E3897-12	SAM	5.01	5.00	0.025	4.42	0.025	46.307	9/28/13
14	E3897-13	SAM	5.01	5.00	0.025	4.44	0.025	44.711	9/28/13
15	E3897-14	SAM	5.01	5.00	0.025	4.46	0.025	43.114	9/28/13
16	E3897-15	SAM	5.01	5.00	0.025	4.22	0.025	62.275	9/28/13
17	E3897-16	SAM	5.01	5.00	0.025	4.24	0.025	60.679	9/28/13
18	E3897-17	SAM	5.01	5.00	0.025	4.22	0.025	62.275	9/28/13
19	E3897-18	SAM	5.02	5.00	0.025	4.62	0.025	30.279	9/28/13
20	E3897-19	SAM	5.02	5.00	0.025	4.70	0.025	23.904	9/28/13
21	E3897-20	SAM	5.02	5.00	0.025	4.78	0.025	17.530	9/28/13
22	E3897-21	SAM	5.02	5.00	0.025	4.84	0.025	12.749	9/28/13

SOP : M <u>9010C - Total Amenable + Reactive Cyanide - 13</u>		Batch# <u>PB72524</u>
TEMP Set1: <u> </u> Set2: <u> </u>		Preparation Date: <u>9-28-13</u>
Balance Check(g): <u>Metab PJ400</u>		Preparation Time: <u>9:30 AM</u>
Wt1: <u>1.00g</u> Wt2: <u>10.00g</u> Wt3: <u> </u>		Time In: <u>10:00 AM</u>
Final Vol: <u>50 mL</u>		Time Out: <u>11:30 AM</u>
		Reviewed By: <u> </u>
		Preparation Signature: <u> </u>

Standard Name	MLS USED	STD REF. # FROM LOG
PBW/PBS	50 mL	W1152
LCSS	2.0 mL	WP26017
Matrix Spike	0.4 mL	WP27336

Chemical Used	ML/Sample Used	Lot Number
0.25N NaOH	50 mL	WP28340
50% v/v H2SO4	5.0 mL	WP25493
51% w/v MgCL2	2.0 mL	WP28378
Sand	5.00 g	W1268

Date / Time	Received By	Relinquished By	Location
9-28-13 11:50 AM	HM	Jm	WLREF H 2
	Analysis Group	Digestion Group	

COMMENTS

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos

Lab Sample ID	Client Sample ID	Matrix	Weight/g Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3861-02	WC1	SOIL	5.01	NA	NA	NA		
E3861-02DUP	WC1DUP		5.01					
E3861-02MS	WC1MS		5.01				TV=40 PPB	
E3896-12	P001-S-2002-1		5.01					
E3896-13	P001-S-2003-1		5.01					
E3896-14	P001-S-3004-1		5.01					
E3896-15	P001-S-3005-1		5.02					
E3897-01	P001-S-3010-1		5.01					
E3897-02	P001-S-3011-1		5.01					
E3897-03	P001-S-3012-1		5.01					
PB72524BL	PB72524BL		5.00					
PB72524BS	PB72524BS	↓	5.00	↓	↓	↓		

SOP : M <u>9010C - Total, Amenable & Reactive Carbon-13</u>		Batch# <u>PB72524</u>
TEMP Set1: _____ Set2: _____		Preparation Date: <u>09/28/2013</u>
Balance Check(g):		Preparation Time: <u>09:30 Am</u>
Wt1: _____	Wt2: _____	Time In: <u>10:00 Am</u>
Wt3: _____		Time Out: <u>11:30 Am</u>
Final Vol: <u>50 mL</u>		Reviewed By: <u>jm</u>
		Preparation Signature: <u>jm</u>

Standard Name	MLS USED	STD REF. # FROM LOG
PBW(PBS)	50 mL	W1152
LCSS	2.0 mL	WP26017
Matrix Spike	0.4 mL	WP27336

Chemical Used	ML/Sample Used	Lot Number
0.25N NaOH	50 mL	WP28340
50% v/v H2SO4	5.0 mL	WP25493
51% w/v MgCL2	2.0 mL	WP28378
Sand	5.00 g	W1268

Date / Time	Received By	Relinquished By	Location
<u>9-28-13 11:50 AM</u>	<u>hm</u>	<u>jm</u>	<u>WLCRFA 12</u>
	Analysis Group	Digestion Group	

COMMENTS

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3861-02	WC1	SOIL	5.01	NA	N/A	N/A		
E3861-02DUP	WC1DUP	SOIL	5.01	NA	N/A	N/A		
E3861-02MS	WC1MS	SOIL	5.01	NA	N/A	N/A	<u>TV = 40 PPM</u>	

* BL=Blank BS=Blank Spike TB=TCLP Blank

Lab Sample ID	Client Sample ID	Matrix	Weight/g Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3896-12	P001-S-2002-1	SOIL	5.01	NA	N/A	N/A		
E3896-13	P001-S-2003-1	SOIL	5.01	NA	N/A	N/A		
E3896-14	P001-S-3004-1	SOIL	5.01	NA	N/A	N/A		
E3896-15	P001-S-3005-1	SOIL	5.02	NA	N/A	N/A		
E3897-01	P001-S-3010-1	SOIL	5.01	NA	N/A	N/A		
E3897-02	P001-S-3011-1	SOIL	5.01	NA	N/A	N/A		
E3897-03	P001-S-3012-1	SOIL	5.01	NA	N/A	N/A		
PB72524BL	PB72524BL	SOIL	5.00	NA	N/A	N/A		
PB72524BS	PB72524BS	SOIL	5.00	NA	N/A	N/A		

* BL=Blank BS=Blank Spike TB=TCLP Blank

SOP : M <u>9010C - Total Amenable & Reactive Gaseous</u>		Batch# <u>PB72525</u>
TEMP Set1: _____ Set2: _____		Preparation Date: <u>9-28-13</u>
Balance Check(g): <u>Met6 PJ 400</u>		Preparation Time: <u>11:50 AM</u>
Wt1: <u>1.00g</u> Wt2: <u>10.00g</u> Wt3: _____		Time In: <u>12:15 PM</u>
Final Vol: <u>50 mL</u>		Time Out: <u>1:45 PM</u>
		Reviewed By: <u>pb</u>
		Preparation Signature: <u>jm</u>

Standardized Name	MLS USED	STD REF. # FROM LOG
PBW/PBS	50 mL	W1152
LCSS	2.0 mL	WP26017
Matrix Spike	0.4 mL	WP27336

Chemical Used	ML/Sample Used	Lot Number
0.25N NaOH	50 mL	WP28340
50% v/v H2SO4	5.0 mL	WP25493
51% w/v MgCL2	2.0 mL	WP28378
Sand	5.00 g	W1268

Date / Time	Received By	Relinquished By	Location
9-28-13 2:00 PM	LM	jm	WCL REF #2
	Analysis Group	Digestion Group	

COMMENTS

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos

Lab Sample ID	Client Sample ID	Matrix	Weight/g Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3897-04	P001-S-3013-1	SOIL	5.01	NA	NA	NA		
E3897-04DUP	P001-S-3013-1DUP		5.01					
E3897-04MS	P001-S-3013-1MS		5.01				TV=40 PPB	
E3897-05	P001-S-4001-1		5.02					
E3897-06	P001-S-4002-1		5.01					
E3897-07	P001-S-4003-1		5.01					
E3897-08	P001-S-5001-1		5.02					
E3897-09	P001-S-5002-1		5.02					
E3897-10	P001-S-5003-1		5.01					
E3897-11	P001-S-5004-1		5.02					
E3897-12	P001-S-5005-1		5.01					
E3897-13	P001-S-6004-1		5.01					
E3897-14	P001-S-6005-1		5.02					
E3897-15	P001-S-6005-2		5.01					
E3897-16	P001-S-6006-1		5.01					
E3897-17	P001-S-6007-1		5.01					
E3897-18	P001-S-6008-1		5.02					
E3897-19	P001-S-7001-1		5.02					
E3897-20	P001-S-7002-1		5.02					
E3897-21	P001-S-7003-1		5.02					
PB72525BL	PB72525BL		5.00					
PB72525BS	PB72525BS	✓	5.00	✓	✓	✓		

SOP : M <u>9010C-Total Ammonia & Reactive Cyanide - 13</u>		Batch# <u>PB72525</u>
TEMP Set1: _____ Set2: _____		Preparation Date: <u>09/28/2013</u>
Balance Check(g): <u>Metzler PJ 400</u>		Preparation Time: <u>11:50 AM</u>
Wt1: <u>1.00g</u> Wt2: <u>10.00g</u> Wt3: _____ <u>1.00g</u> <u>10.00g</u>		Time In: <u>12:15 PM</u>
Final Vol: <u>50 mL</u>		Time Out: <u>1:45 PM</u>
		Reviewed By: <u>pb</u>
		Preparation Signature: <u>jm</u>

Standard Name	MLS USED	STD REF. # FROM LOG
PBW/PBS	50 mL	W1152
LCSS	2.0 mL	WP26017
Matrix Spike	0.4 mL	WP27336

Chemical Used	ML/Sample Used	Lot Number
0.25N NaOH	50 mL	WP28340
50% v/v H2SO4	5.0 mL	WP25493
51% w/v MgCL2	2.0 mL	WP28378
Sand	5.00 g	W1268

Date / Time	Received By	Relinquished By	Location
9-28-13 2:00 PM	HM	jm	WCRF #2
	Analysis Group	Digestion Group	

COMMENTS

Lab Sample ID	Client Sample ID	Matrix	Weight/g Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3897-04	P001-S-3013-1	SOIL	5.01	NA	N/A	N/A		
E3897-04DUP	P001-S-3013-1DUP	SOIL	5.01	NA	N/A	N/A		
E3897-04MS	P001-S-3013-1MS	SOIL	5.01	NA	N/A	N/A	TV=40 PPB	

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3897-05	P001-S-4001-1	SOIL	5.02	NA	N/A	N/A		
E3897-06	P001-S-4002-1	SOIL	5.01	NA	N/A	N/A		
E3897-07	P001-S-4003-1	SOIL	5.01	NA	N/A	N/A		
E3897-08	P001-S-5001-1	SOIL	5.02	NA	N/A	N/A		
E3897-09	P001-S-5002-1	SOIL	5.02	NA	N/A	N/A		
E3897-10	P001-S-5003-1	SOIL	5.01	NA	N/A	N/A		
E3897-11	P001-S-5004-1	SOIL	5.02	NA	N/A	N/A		
E3897-12	P001-S-5005-1	SOIL	5.01	NA	N/A	N/A		
E3897-13	P001-S-6004-1	SOIL	5.01	NA	N/A	N/A		
E3897-14	P001-S-6005-1	SOIL	5.02	NA	N/A	N/A		
E3897-15	P001-S-6005-2	SOIL	5.01	NA	N/A	N/A		
E3897-16	P001-S-6006-1	SOIL	5.01	NA	N/A	N/A		
E3897-17	P001-S-6007-1	SOIL	5.01	NA	N/A	N/A		
E3897-18	P001-S-6008-1	SOIL	5.02	NA	N/A	N/A		
E3897-19	P001-S-7001-1	SOIL	5.02	NA	N/A	N/A		
E3897-20	P001-S-7002-1	SOIL	5.02	NA	N/A	N/A		
E3897-21	P001-S-7003-1	SOIL	5.02	NA	N/A	N/A		
PB72525BL	PB72525BL	SOIL	5.00	NA	N/A	N/A		
PB72525BS	PB72525BS	SOIL	5.00	NA	N/A	N/A		

SOP : M <u>9030B-SUBC-07</u> TEMP Set1: <u> </u> Set2: <u> </u> Balance Check(g): <u>Metal PJ 420</u> Wt1: <u>1.00g</u> Wt2: <u>10.00g</u> Wt3: <u> </u> <u>1.00g</u> Final Vol: <u>50mL</u>	Batch# <u>PB72527</u> Preparation Date: <u>9-28-13</u> Preparation Time: <u>9:30 AM</u> Time In: <u>10:00 AM</u> Time: Out <u>11:30 AM</u> Reviewed By: <u>[Signature]</u> Preparation Signature: <u>[Signature]</u>
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Standard Name	MLS USED	STD REF. # FROM LOG
PBW/PBS	50 mL	W1152
LCSS	1.25 mL	WP27067
Matrix Spike	1.25mL	WP27067

Chemical Used	ML/Sample Used	Lot Number
0.5M ZINC ACETATE	5.0 mL	WP27069
FORMALDEHYDE	2.0 mL	W1722
Sand	5.00 g	W1268

Date / Time	Received By	Relinquished By	Location

COMMENTS

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3861-02	WC1	SOIL	5.01	NA	NA	NA		
E3861-02DUP	WC1DUP		5.01					
E3861-02MS	WC1MS		5.01				TV=25PPM	
E3896-12	P001-S-2002-1		5.01					
E3896-13	P001-S-2003-1		5.00					
E3896-14	P001-S-3004-1		5.01					
E3896-15	P001-S-3005-1		5.02					
E3897-01	P001-S-3010-1		5.01					
E3897-02	P001-S-3011-1		5.02					
E3897-03	P001-S-3012-1		5.01					
PB72527BL	PB72527BL		5.00					
PB72527BS	PB72527BS		5.00					

SOP : M <u>9030B-Subfile -07</u>		Batch# <u>PB72527</u>
TEMP Set1: _____ Set2: _____		Preparation Date: <u>09/28/2013</u>
Balance Check(g): <u>Metal PJ 400</u>		Preparation Time: <u>09:30 AM</u>
Wt1: <u>1.00g</u> Wt2: <u>10.00g</u> Wt3: _____		Time In: <u>10:00 AM</u>
Final Vol: <u>50 mL</u>		Time Out: <u>11:30 AM</u>
		Reviewed By: <u>JS</u>
		Preparation Signature: <u>Jm</u>

Standardized Name	MLS USED	STD REF. # FROM LOG
PBW/PBS	50 mL	W1152
LCSS	1.25 mL	WP27067
Matrix Spike	1.25mL	WP27067

Chemical Used	ML/Sample Used	Lot Number
0.5M ZINC ACETATE	5.0 mL	WP27069
FORMALDEHYDE	2.0 mL	W1722
Sand	5.00 g	W1268

Date / Time	Received By	Relinquished By	Location
	Analysis Group	Digestion Group	

COMMENTS

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3861-02	WC1	SOIL	5.01	NA	N/A	N/A		
E3861-02DUP	WC1DUP	SOIL	5.01	NA	N/A	N/A		
E3861-02MS	WC1MS	SOIL	5.01	NA	N/A	N/A	TV=25PPM	

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3896-12	P001-S-2002-1	SOIL	5.01	NA	N/A	N/A		
E3896-13	P001-S-2003-1	SOIL	5.00	NA	N/A	N/A		
E3896-14	P001-S-3004-1	SOIL	5.01	NA	N/A	N/A		
E3896-15	P001-S-3005-1	SOIL	5.02	NA	N/A	N/A		
E3897-01	P001-S-3010-1	SOIL	5.01	NA	N/A	N/A		
E3897-02	P001-S-3011-1	SOIL	5.02	NA	N/A	N/A		
E3897-03	P001-S-3012-1	SOIL	5.01	NA	N/A	N/A		
PB72527BL	PB72527BL	SOIL	5.00	NA	N/A	N/A		
PB72527BS	PB72527BS	SOIL	5.00	NA	N/A	N/A		

SOP : M <u>9030B-S/12/12-07</u>		Batch# <u>PB72528</u>
TEMP Set1: <u> </u> Set2: <u> </u>		Preparation Date: <u>9-28-13</u>
Balance Check(g): <u>Metel PJ 400</u>		Preparation Time: <u>4:30 Pm</u>
Wt1: <u>1.00g</u> Wt2: <u>10.00g</u> Wt3: <u> </u>		Time In: <u>5:00 Pm</u>
Final Vol: <u>50ml</u>		Time: Out <u>6:30 Pm</u>
		Reviewed By: <u> </u>
		Preparation Signature: <u> </u>

Standardized Name	MLS USED	STD REF. # FROM LOG
PBW/PBS	50 mL	W1152
LCSS	1.25 mL	WP27067
Matrix Spike	1.25mL	WP27067

Chemical Used	ML/Sample Used	Lot Number
0.5M ZINC ACETATE	5.0 mL	WP27069
FORMALDEHYDE	2.0 mL	W1722
Sand	5.00 g	W1268

Date / Time	Received By	Relinquished By	Location

COMMENTS

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3897-04	P001-S-3013-1	SOIL	5.01	NA	NA	NA		
E3897-04DUP	P001-S-3013-1DUP		5.01					
E3897-04MS	P001-S-3013-1MS		5.01				TV=25 PPM	
E3897-05	P001-S-4001-1		5.01					
E3897-06	P001-S-4002-1		5.02					
E3897-07	P001-S-4003-1		5.01					
E3897-08	P001-S-5001-1		5.02					
E3897-09	P001-S-5002-1		5.02					
E3897-10	P001-S-5003-1		5.02					
E3897-11	P001-S-5004-1		5.02					
E3897-12	P001-S-5005-1		5.01					
E3897-13	P001-S-6004-1		5.01					
E3897-14	P001-S-6005-1		5.01					
E3897-15	P001-S-6005-2		5.01					
E3897-16	P001-S-6006-1		5.01					
E3897-17	P001-S-6007-1		5.01					
E3897-18	P001-S-6008-1		5.02					
E3897-19	P001-S-7001-1		5.02					
E3897-20	P001-S-7002-1		5.02					
E3897-21	P001-S-7003-1		5.02					
PB72528BL	PB72528BL		5.00					
PB72528BS	PB72528BS	✓	5.00	✓	✓	✓		

SOP : M <u>9030B-Sulfide-07</u> TEMP Set1: _____ Set2: _____ Balance Check(g): <u>Metal PJ 400</u> Wt1: <u>1.00g</u> Wt2: <u>10.00g</u> Wt3: _____ <u>1.00g</u> <u>10.00g</u> Final Vol: <u>50 mL</u>	Batch# <u>PB72528</u> Preparation Date: <u>09/28/2013</u> Preparation Time: <u>16:30</u> Time In: <u>5:00 PM</u> Time: Out <u>6:30 PM</u> Reviewed By: <u>AB</u> Preparation Signature: <u>Jm</u>
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Standardized Name	MLS USED	STD REF. # FROM LOG
PBW(PBS)	50 mL	W1152
LCSS	1.25 mL	WP27067
Matrix Spike	1.25mL	WP27067

Chemical Used	ML/Sample Used	Lot Number
0.5M ZINC ACETATE	5.0 mL	WP27069
FORMALDEHYDE	2.0 mL	W1722
Sand	5.00 g	W1268

Date / Time	Received By	Relinquished By	Location

COMMENTS

Jm 9-28-13

Lab Sample ID	Client Sample ID	Matrix	Weight/Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3897-04	P001-S-3013-1	SOIL	5.01	NA	N/A	N/A		
E3897-04DUP	P001-S-3013-1DUP	SOIL	5.01	NA	N/A	N/A		
E3897-04MS	P001-S-3013-1MS	SOIL	5.01	NA	N/A	N/A	TV = 25 PPM	

Lab Sample ID	Client Sample ID	Matrix	Weight/ Volume	PH	Sulfide	Oxidizing	Comments	Prep Pos
E3897-05	P001-S-4001-1	SOIL	5.01	NA	N/A	N/A		
E3897-06	P001-S-4002-1	SOIL	5.02	NA	N/A	N/A		
E3897-07	P001-S-4003-1	SOIL	5.01	NA	N/A	N/A		
E3897-08	P001-S-5001-1	SOIL	5.02	NA	N/A	N/A		
E3897-09	P001-S-5002-1	SOIL	5.02	NA	N/A	N/A		
E3897-10	P001-S-5003-1	SOIL	5.02	NA	N/A	N/A		
E3897-11	P001-S-5004-1	SOIL	5.02	NA	N/A	N/A		
E3897-12	P001-S-5005-1	SOIL	5.01	NA	N/A	N/A		
E3897-13	P001-S-6004-1	SOIL	5.01	NA	N/A	N/A		
E3897-14	P001-S-6005-1	SOIL	5.01	NA	N/A	N/A		
E3897-15	P001-S-6005-2	SOIL	5.01	NA	N/A	N/A		
E3897-16	P001-S-6006-1	SOIL	5.01	NA	N/A	N/A		
E3897-17	P001-S-6007-1	SOIL	5.01	NA	N/A	N/A		
E3897-18	P001-S-6008-1	SOIL	5.02	NA	N/A	N/A		
E3897-19	P001-S-7001-1	SOIL	5.02	NA	N/A	N/A		
E3897-20	P001-S-7002-1	SOIL	5.02	NA	N/A	N/A		
E3897-21	P001-S-7003-1	SOIL	5.02	NA	N/A	N/A		
PB72528BL	PB72528BL	SOIL	5.00	NA	N/A	N/A		
PB72528BS	PB72528BS	SOIL	5.00	NA	N/A	N/A		

Daily Analysis Runlog For Sequence/QC Batch ID # LB67937

Review By		apatel		Review On		10/3/2013 11:24:25 AM	
STD. NAME		STD REF.#					
ICAL Standard		W1812,W1813,W1779					
ICV Standard		W1749					
CCV Standard		W1657,W1748					
ICSA Standard							
CRI Standard							
Chk Standard							
Sr#	SampleID	ClientID	QcType	Date	Comment	Status	
1	CAL	CAL	CAL	09/28/13 13:45		OK	
2	CAL	CAL	CAL	09/28/13 13:49		OK	
3	CAL	CAL	CAL	09/28/13 13:53		OK	
4	ICV1	ICV1	ICV	09/28/13 13:57		OK	
5	CCV1	CCV1	CCV	09/28/13 14:01		OK	
6	E3897-01	P001-S-3010-1	SAM	09/28/13 14:05		OK	
7	E3897-01D	P001-S-3010-1D	DUP	09/28/13 14:09		OK	
8	E3897-02	P001-S-3011-1	SAM	09/28/13 14:13		OK	
9	E3897-03	P001-S-3012-1	SAM	09/28/13 14:17		OK	
10	E3897-04	P001-S-3013-1	SAM	09/28/13 14:21		OK	
11	E3897-05	P001-S-4001-1	SAM	09/28/13 14:25		OK	
12	E3897-06	P001-S-4002-1	SAM	09/28/13 14:29		OK	
13	E3897-07	P001-S-4003-1	SAM	09/28/13 14:33		OK	
14	E3897-08	P001-S-5001-1	SAM	09/28/13 14:37		OK	
15	E3897-09	P001-S-5002-1	SAM	09/28/13 14:41		OK	
16	CCV2	CCV2	CCV	09/28/13 14:45		OK	
17	E3897-10	P001-S-5003-1	SAM	09/28/13 14:49		OK	
18	E3897-10D	P001-S-5003-1D	DUP	09/28/13 14:53		OK	
19	E3897-11	P001-S-5004-1	SAM	09/28/13 14:57		OK	
20	E3897-12	P001-S-5005-1	SAM	09/28/13 15:01		OK	
21	E3897-13	P001-S-6004-1	SAM	09/28/13 15:05		OK	

Instrument ID: PH METER

Daily Analysis Runlog For Sequence/QC Batch ID # LB67937

Review By		apatel		Review On		10/3/2013 11:24:25 AM	
STD. NAME		STD REF.#					
ICAL Standard		W1812,W1813,W1779					
ICV Standard		W1749					
CCV Standard		W1657,W1748					
ICSA Standard							
CRI Standard							
Chk Standard							
22	E3897-14	P001-S-6005-1	SAM	09/28/13 15:09		OK	
23	E3897-15	P001-S-6005-2	SAM	09/28/13 15:13		OK	
24	E3897-16	P001-S-6006-1	SAM	09/28/13 15:17		OK	
25	E3897-17	P001-S-6007-1	SAM	09/28/13 15:21		OK	
26	E3897-18	P001-S-6008-1	SAM	09/28/13 15:25		OK	
27	CCV3	CCV3	CCV	09/28/13 15:29		OK	
28	E3897-19	P001-S-7001-1	SAM	09/28/13 15:33		OK	
29	E3897-19D	P001-S-7001-1D	DUP	09/28/13 15:37		OK	
30	E3897-20	P001-S-7002-1	SAM	09/28/13 15:41		OK	
31	E3897-21	P001-S-7003-1	SAM	09/28/13 15:45		OK	
32	CCV4	CCV4	CCV	09/28/13 15:49		OK	

Daily Analysis Runlog For Sequence/QC Batch ID # LB67939

Review By		apatel		Review On		10/3/2013 11:24:14 AM	
STD. NAME		STD REF.#					
ICAL Standard ICV Standard CCV Standard ICSA Standard CRI Standard Chk Standard							
Sr#	SampleID	ClientID	QcType	Date	Comment	Status	
1	E3897-01	P001-S-3010-1	SAM	09/28/13 16:00		OK	
2	E3897-01D	P001-S-3010-1D	DUP	09/28/13 16:00		OK	
3	E3897-02	P001-S-3011-1	SAM	09/28/13 16:00		OK	
4	E3897-03	P001-S-3012-1	SAM	09/28/13 16:00		OK	
5	E3897-04	P001-S-3013-1	SAM	09/28/13 16:00		OK	
6	E3897-05	P001-S-4001-1	SAM	09/28/13 16:00		OK	
7	E3897-06	P001-S-4002-1	SAM	09/28/13 16:00		OK	
8	E3897-07	P001-S-4003-1	SAM	09/28/13 16:00		OK	
9	E3897-08	P001-S-5001-1	SAM	09/28/13 16:00		OK	
10	E3897-09	P001-S-5002-1	SAM	09/28/13 16:00		OK	
11	E3897-10	P001-S-5003-1	SAM	09/28/13 16:00		OK	
12	E3897-11	P001-S-5004-1	SAM	09/28/13 16:00		OK	
13	E3897-12	P001-S-5005-1	SAM	09/28/13 16:00		OK	
14	E3897-13	P001-S-6004-1	SAM	09/28/13 16:00		OK	
15	E3897-14	P001-S-6005-1	SAM	09/28/13 16:00		OK	
16	E3897-15	P001-S-6005-2	SAM	09/28/13 16:00		OK	
17	E3897-16	P001-S-6006-1	SAM	09/28/13 16:00		OK	
18	E3897-17	P001-S-6007-1	SAM	09/28/13 16:00		OK	
19	E3897-18	P001-S-6008-1	SAM	09/28/13 16:00		OK	
20	E3897-19	P001-S-7001-1	SAM	09/28/13 16:00		OK	
21	E3897-20	P001-S-7002-1	SAM	09/28/13 16:00		OK	

Instrument ID: GRAVIMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB67939

Review By		apatel		Review On		10/3/2013 11:24:14 AM	
STD. NAME		STD REF.#					
ICAL Standard ICV Standard CCV Standard ICSA Standard CRI Standard Chk Standard							
22	E3897-21	P001-S-7003-1	SAM	09/28/13 16:00			OK
23	E3861-02	WC1	SAM	09/28/13 16:00			OK
24	E3861-02D	WC1D	DUP	09/28/13 16:00			OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB67946

Review By		heta		Review On		10/1/2013 6:38:04 PM	
STD. NAME		STD REF.#					
ICAL Standard		WP28972,WP28973,WP28974,WP28975,WP28976,WP28977,WP28978					
ICV Standard		WP28980					
CCV Standard		WP28979					
ICSA Standard							
CRI Standard							
Chk Standard		WP25452,WP25453,WP28970					
Sr#	SampleID	ClientID	QcType	Date	Comment	Status	
1	0.0PPBCN	0.0PPBCN	CAL	09/30/13 09:47		OK	
2	5.0PPBCN	5.0PPBCN	CAL	09/30/13 09:47		OK	
3	10PPBCN	10PPBCN	CAL	09/30/13 09:47		OK	
4	50PPBCN	50PPBCN	CAL	09/30/13 09:47		OK	
5	100PPBCN	100PPBCN	CAL	09/30/13 09:47		OK	
6	250PPBCN	250PPBCN	CAL	09/30/13 09:47		OK	
7	500PPBCN	500PPBCN	CAL	09/30/13 09:47		OK	
8	LOW	LOW	LDS	09/30/13 10:06		OK	
9	HIGH	HIGH	HDS	09/30/13 10:06		OK	
10	ICV1	ICV1	ICV	09/30/13 12:27		OK	
11	ICB1	ICB1	ICB	09/30/13 12:27		OK	
12	CCV1	CCV1	CCV	09/30/13 12:27		OK	
13	CCB1	CCB1	CCB	09/30/13 12:27		OK	
14	LB67946BLS	LB67946BLS	MB	09/30/13 12:27		OK	
15	LB67946BSS	LB67946BSS	LCS	09/30/13 12:27		OK	
16	E3896-12	P001-S-2002-1	SAM	09/30/13 12:27		OK	
17	E3896-13	P001-S-2003-1	SAM	09/30/13 12:27		OK	
18	E3896-14	P001-S-3004-1	SAM	09/30/13 12:34		OK	
19	E3896-15	P001-S-3005-1	SAM	09/30/13 12:34		OK	
20	E3897-01	P001-S-3010-1	SAM	09/30/13 12:34		OK	
21	CCV2	CCV2	CCV	09/30/13 12:34		OK	

Daily Analysis Runlog For Sequence/QC Batch ID # LB67946

Review By		heta		Review On		10/1/2013 6:38:04 PM	
STD. NAME		STD REF.#					
ICAL Standard		WP28972,WP28973,WP28974,WP28975,WP28976,WP28977,WP28978					
ICV Standard		WP28980					
CCV Standard		WP28979					
ICSA Standard							
CRI Standard							
Chk Standard		WP25452,WP25453,WP28970					
22	CCB2	CCB2	CCB	09/30/13 12:34		OK	
23	E3897-02	P001-S-3011-1	SAM	09/30/13 12:34		OK	
24	E3897-03	P001-S-3012-1	SAM	09/30/13 12:34		OK	
25	E3861-02	WC1	SAM	09/30/13 12:58		OK	
26	E3861-02D	WC1D	DUP	09/30/13 12:58		OK	
27	E3861-02S	WC1S	MS	09/30/13 12:58		OK	
28	CCV3	CCV3	CCV	09/30/13 12:58		OK	
29	CCB3	CCB3	CCB	09/30/13 12:58		OK	

Daily Analysis Runlog For Sequence/QC Batch ID # LB67947

Review By		heta		Review On		10/3/2013 11:20:03 AM	
STD. NAME		STD REF.#					
ICAL Standard		WP28972,WP28973,WP28974,WP28975,WP28976,WP28977,WP28978					
ICV Standard		WP28980					
CCV Standard		WP28979					
ICSA Standard							
CRI Standard							
Chk Standard		WP25452,WP25453,WP28970					
Sr#	SampleID	ClientID	QcType	Date	Comment	Status	
1	0.0PPBCN	0.0PPBCN	CAL	09/30/13 09:47		OK	
2	5.0PPBCN	5.0PPBCN	CAL	09/30/13 09:47		OK	
3	10PPBCN	10PPBCN	CAL	09/30/13 09:47		OK	
4	50PPBCN	50PPBCN	CAL	09/30/13 09:47		OK	
5	100PPBCN	100PPBCN	CAL	09/30/13 09:47		OK	
6	250PPBCN	250PPBCN	CAL	09/30/13 09:47		OK	
7	500PPBCN	500PPBCN	CAL	09/30/13 09:47		OK	
8	LOW	LOW	LDS	09/30/13 10:06		OK	
9	HIGH	HIGH	HDS	09/30/13 10:06		OK	
10	ICV1	ICV1	ICV	09/30/13 13:42		OK	
11	ICB1	ICB1	ICB	09/30/13 13:42		OK	
12	CCV1	CCV1	CCV	09/30/13 13:42		OK	
13	CCB1	CCB1	CCB	09/30/13 13:42		OK	
14	LB67947BLS	LB67947BLS	MB	09/30/13 13:42		OK	
15	LB67947BSS	LB67947BSS	LCS	09/30/13 13:42		OK	
16	E3897-04	P001-S-3013-1	SAM	09/30/13 13:42		OK	
17	E3897-04D	P001-S-3013-1D	DUP	09/30/13 13:42		OK	
18	E3897-04S	P001-S-3013-1S	MS	09/30/13 13:42		OK	
19	E3897-05	P001-S-4001-1	SAM	09/30/13 13:42		OK	
20	E3897-06	P001-S-4002-1	SAM	09/30/13 13:42		OK	
21	E3897-07	P001-S-4003-1	SAM	09/30/13 13:49		OK	

Daily Analysis Runlog For Sequence/QC Batch ID # LB67947

Review By		heta		Review On		10/3/2013 11:20:03 AM	
STD. NAME		STD REF.#					
ICAL Standard		WP28972,WP28973,WP28974,WP28975,WP28976,WP28977,WP28978					
ICV Standard		WP28980					
CCV Standard		WP28979					
ICSA Standard							
CRI Standard							
Chk Standard		WP25452,WP25453,WP28970					
22	E3897-08	P001-S-5001-1	SAM	09/30/13 13:49		OK	
23	E3897-09	P001-S-5002-1	SAM	09/30/13 13:49		OK	
24	CCV2	CCV2	CCV	09/30/13 13:49		OK	
25	CCB2	CCB2	CCB	09/30/13 13:49		OK	
26	E3897-10	P001-S-5003-1	SAM	09/30/13 13:49		OK	
27	E3897-11	P001-S-5004-1	SAM	09/30/13 13:50		OK	
28	E3897-12	P001-S-5005-1	SAM	09/30/13 13:50		OK	
29	E3897-13	P001-S-6004-1	SAM	09/30/13 13:50		OK	
30	E3897-14	P001-S-6005-1	SAM	09/30/13 13:50		OK	
31	E3897-15	P001-S-6005-2	SAM	09/30/13 13:50		OK	
32	E3897-16	P001-S-6006-1	SAM	09/30/13 13:57		OK	
33	E3897-17	P001-S-6007-1	SAM	09/30/13 13:57		OK	
34	E3897-18	P001-S-6008-1	SAM	09/30/13 13:57		OK	
35	E3897-19	P001-S-7001-1	SAM	09/30/13 13:57		OK	
36	CCV3	CCV3	CCV	09/30/13 13:57		OK	
37	CCB3	CCB3	CCB	09/30/13 13:57		OK	
38	E3897-20	P001-S-7002-1	SAM	09/30/13 13:57		OK	
39	E3897-21	P001-S-7003-1	SAM	09/30/13 13:57		OK	
40	CCV4	CCV4	CCV	09/30/13 13:57		OK	
41	CCB4	CCB4	CCB	09/30/13 13:57		OK	

Daily Analysis Runlog For Sequence/QC Batch ID # LB67949

Review By		AHPatel		Review On		10/3/2013 6:32:45 AM	
STD. NAME		STD REF.#					
ICAL Standard ICV Standard CCV Standard ICSA Standard CRI Standard Chk Standard		W1700,W1757,W1805					
Sr#	SampleID	ClientID	QcType	Date	Comment	Status	
1	LB67949BLS	LB67949BLS	MB	09/28/13 11:45		OK	
2	LB67949BSS	LB67949BSS	LCS	09/28/13 11:45		OK	
3	E3861-02	WC1	SAM	09/28/13 11:45		OK	
4	E3861-02D	WC1D	DUP	09/28/13 11:45		OK	
5	E3861-02S	WC1S	MS	09/28/13 11:45		OK	
6	E3896-12	P001-S-2002-1	SAM	09/28/13 11:45		OK	
7	E3896-13	P001-S-2003-1	SAM	09/28/13 11:45		OK	
8	E3896-14	P001-S-3004-1	SAM	09/28/13 11:45		OK	
9	E3896-15	P001-S-3005-1	SAM	09/28/13 11:45		OK	
10	E3897-01	P001-S-3010-1	SAM	09/28/13 11:45		OK	
11	E3897-02	P001-S-3011-1	SAM	09/28/13 11:45		OK	
12	E3897-03	P001-S-3012-1	SAM	09/28/13 11:45		OK	

Daily Analysis Runlog For Sequence/QC Batch ID # LB67950

Review By		apatel		Review On		10/3/2013 11:24:03 AM	
STD. NAME		STD REF.#					
ICAL Standard ICV Standard CCV Standard ICSA Standard CRI Standard Chk Standard		W1700,W1757,W1805					
Sr#	SampleID	ClientID	QcType	Date	Comment	Status	
1	LB67950BLS	LB67950BLS	MB	09/28/13 18:45		OK	
2	LB67950BSS	LB67950BSS	LCS	09/28/13 18:45		OK	
3	E3897-04	P001-S-3013-1	SAM	09/28/13 18:45		OK	
4	E3897-04D	P001-S-3013-1D	DUP	09/28/13 18:45		OK	
5	E3897-04S	P001-S-3013-1S	MS	09/28/13 18:45		OK	
6	E3897-05	P001-S-4001-1	SAM	09/28/13 18:45		OK	
7	E3897-06	P001-S-4002-1	SAM	09/28/13 18:45		OK	
8	E3897-07	P001-S-4003-1	SAM	09/28/13 18:45		OK	
9	E3897-08	P001-S-5001-1	SAM	09/28/13 18:45		OK	
10	E3897-09	P001-S-5002-1	SAM	09/28/13 18:45		OK	
11	E3897-10	P001-S-5003-1	SAM	09/28/13 18:45		OK	
12	E3897-11	P001-S-5004-1	SAM	09/28/13 18:45		OK	
13	E3897-12	P001-S-5005-1	SAM	09/28/13 18:45		OK	
14	E3897-13	P001-S-6004-1	SAM	09/28/13 18:45		OK	
15	E3897-14	P001-S-6005-1	SAM	09/28/13 18:45		OK	
16	E3897-15	P001-S-6005-2	SAM	09/28/13 18:45		OK	
17	E3897-16	P001-S-6006-1	SAM	09/28/13 18:45		OK	
18	E3897-17	P001-S-6007-1	SAM	09/28/13 18:45		OK	
19	E3897-18	P001-S-6008-1	SAM	09/28/13 18:45		OK	
20	E3897-19	P001-S-7001-1	SAM	09/28/13 18:45		OK	
21	E3897-20	P001-S-7002-1	SAM	09/28/13 18:45		OK	

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QC Batch ID # LB67950

Review By		apatel		Review On		10/3/2013 11:24:03 AM	
STD. NAME		STD REF.#					
ICAL Standard		W1700,W1757,W1805					
ICV Standard							
CCV Standard							
ICSA Standard							
CRI Standard							
Chk Standard							
22	E3897-21	P001-S-7003-1	SAM	09/28/13 18:45			OK

Prep Standard - Chemical Standard Summary**Order ID :** E3897**Test :** Corrosivity,Ignitability,Reactive Cyanide,Reactive Sulfide**Prepbatch ID :** PB72524,PB72525,PB72527,PB72528,**Sequence ID/Qc Batch ID:** LB67937,LB67939,lb67946,lb67947,LB67949,LB67950,**Standard ID :**

WP24646,WP25452,WP25453,WP25493,WP26017,WP27067,WP27069,WP27189,WP27336,WP28340,WP28378,WP28967,WP28969,WP28970,WP28971,WP28972,WP28973,WP28974,WP28975,WP28976,WP28977,WP28978,WP28979,WP28980,

Chemical ID :

W1031,W1059,W1096,W1098,W1120,W1152,W1209,W1210,W1268,W1339,W1618,W1657,W1692,W1700,W1722,W1748,W1749,W1752,W1757,W1779,W1785,W1789,W1805,W1812,W1813,

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
11	Sodium hydroxide absorbing solution 0.25 N	WP24646	03/07/2013	09/07/2013	roberto
FROM 21.000L of W1152(DI Water) + 210.000gram of W1618(Sodium Hydroxide Pellets 12 Kg) = Final Quantity: 21.000 L					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
539	CN BUFFER	WP25452	04/11/2013	10/11/2013	heta
FROM 138.000gram of W1059(SODIUM PHOSPHATE, MONOBAS/HYD, CRYST, ACS, 2.5 KG) + 862.000ml of W1152(DI Water) = Final Quantity: 1000.000 ml					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
607	PYRIDINE-BARBITURIC ACID	WP25453	04/11/2013	10/11/2013	heta
FROM 145.000ml of W1152(DI Water) + 15.000gram of W1210(Barbituric Acid, 100 gms) + 15.000ml of W1096(Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)) + 75.000ml of W1209(Pyridine, 4L) = Final Quantity: 250.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
2046	SULFURIC ACID 1:1	WP25493	04/15/2013	10/15/2013	jim
FROM 500.000ml of W1152(DI Water) + 500.000ml of W1692(Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)) = Final Quantity: 1000.000 ml					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1749	Reactive Cyanide Spike solution, 5PPM	WP26017	05/09/2013	09/30/2013	jim
FROM 5.000ml of W1789(CYANIDE STD 1000PPM 4OZ) + 995.000ml of WP24646(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 1000.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
143	Reactive sulfide stock std. 1000 ppm	WP27067	07/03/2013	01/03/2014	jim
FROM 0.993L of W1152(DI Water) + 7.500gram of W1031(Sodium Sulfide, 500 g) = Final Quantity: 1.000 L					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
160	0.5M ZINC ACETATE	WP27069	07/03/2013	01/03/2014	jim
FROM 0.889L of W1152(DI Water) + 1.000ml of W1098(Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)) + 110.000gram of W1752(ZINC ACETATE,DIHYD,CRYS,ACS,500G) = Final Quantity: 1000.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
11	Sodium hydroxide absorbing solution 0.25 N	WP27189	07/10/2013	01/10/2014	roberto
FROM 21.000L of W1152(DI Water) + 210.000gram of W1618(Sodium Hydroxide Pellets 12 Kg) = Final Quantity: 21.000 L					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
294	Working Std for CN Spike (5 ppm)	WP27336	07/17/2013	09/30/2013	roberto
FROM 5.000ml of W1785(CYANIDE STD 1000PPM 4OZ) + 995.000ml of WP27189(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 1000.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
11	Sodium hydroxide absorbing solution 0.25 N	WP28340	09/03/2013	03/03/2014	roberto
FROM 21.000L of W1152(DI Water) + 210.000gram of W1618(Sodium Hydroxide Pellets 12 Kg) = Final Quantity: 21.000 L					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1768	Magnesium chloride solution, 51% (w/v)	WP28378	09/04/2013	03/04/2014	jim
FROM 490.000ml of W1152(DI Water) + 510.000gram of W1339(MAGNESIUM CHLORIDE, 6-HYD, CRYST, 12KG) = Final Quantity: 1000.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
146	Reactive sulfide LCS std.	WP28967	09/28/2013	09/29/2013	jim
FROM 48.750ml of W1152(DI Water) + 1.250ml of WP27067(Reactive sulfide stock std. 1000 ppm) = Final Quantity: 50.000 ml					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
146	Reactive sulfide LCS std.	WP28969	09/28/2013	09/29/2013	jim
FROM 48.750ml of W1152(DI Water) + 1.250ml of WP27067(Reactive sulfide stock std. 1000 ppm) = Final Quantity: 50.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
10	Chloramine T solution	WP28970	09/30/2013	10/01/2013	heta
FROM 1.000gram of W1120(CHLORAMINE-T BAKER 250GM) + 99.000ml of W1152(DI Water) = Final Quantity: 100.000 ml					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
3	Standard Cyanide Working Solution 5 ppm	WP28971	09/30/2013	09/30/2013	heta
FROM 0.500ml of W1785(CYANIDE STD 1000PPM 4OZ) + 99.500ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
4	Calibration standard 500 ppb	WP28972	09/30/2013	09/30/2013	heta
FROM 10.000ml of WP28971(Standard Cyanide Working Solution 5 ppm) + 90.000ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
5	Calibration Standard 250 ppb	WP28973	09/30/2013	09/30/2013	heta
FROM 5.000ml of WP28971(Standard Cyanide Working Solution 5 ppm) + 95.000ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
6	Calibration Standard 100 ppb	WP28974	09/30/2013	09/30/2013	heta
FROM 2.000ml of WP28971(Standard Cyanide Working Solution 5 ppm) + 98.000ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
7	Calibration Standard 50 ppb	WP28975	09/30/2013	09/30/2013	heta
FROM 1.000ml of WP28971(Standard Cyanide Working Solution 5 ppm) + 99.000ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
8	Calibration Standard 10 ppb	WP28976	09/30/2013	09/30/2013	heta
FROM 2.000ml of WP28972(Calibration standard 500 ppb) + 98.000ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
9	Calibration Standard 5 ppb	WP28977	09/30/2013	09/30/2013	heta
FROM 1.000ml of WP28972(Calibration standard 500 ppb) + 99.000ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
167	0 ppb CN calibration std	WP28978	09/30/2013	10/01/2013	heta
FROM 100.000ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

STANDARD PREPARATION LOG

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
1593	CN CCV std, 250PPB	WP28979	09/30/2013	09/30/2013	heta
FROM 5.000ml of WP28971(Standard Cyanide Working Solution 5 ppm) + 95.000ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

RecipeID	NAME	NO.	Prep Date	Expiration D	Prepared By
2168	RCN ICV STD, 100 PPB	WP28980	09/30/2013	09/30/2013	heta
FROM 2.000ml of WP26017(Reactive Cyanide Spike solution, 5PPM) + 98.000ml of WP28340(Sodium hydroxide absorbing solution 0.25 N) = Final Quantity: 100.000 ml					

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3910-1 / Sodium Sulfide, 500 g	H23586	10/02/2019	10/02/2009 /	10/02/2009 / jmoore	W1031

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYST, ACS, 2.5 KG	H29154	01/30/2020	03/03/2010 /	01/08/2010 / jmoore	W1059

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	h04040	11/24/2019	03/03/2010 /	11/25/2009 / jmoore	W1096

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	h04040	11/24/2019	04/23/2010 / jmoore	11/25/2009 / jmoore	W1098

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	h23602	12/14/2019	03/03/2010 /	12/15/2009 / jmoore	W1120

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Res-Kem General water	DIW / DI Water	Lab certified	02/23/2015	02/23/2010 /	02/23/2010 / divya	W1152

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J9393-3 / Pyridine, 4L	L15470	05/31/2018	05/30/2008 / jmoore	05/30/2008 / jmoore	W1209

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	Y32603	10/28/2023	10/27/2003 / jmoore	10/27/2003 / jmoore	W1210

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	H36602	05/26/2020	08/18/2010 / jmoore	05/25/2010 / jmoore	W1268

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1.05832.9012 / MAGNESIUM CHLORIDE, 6-HYD, CRYST, 12KG	a0031132	07/21/2020	07/21/2010 / jmoore	07/20/2010 / jmoore	W1339

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	PB002849SP	12/20/2016	01/07/2013 / jim	12/20/2011 / apatel	W1618

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2203102	02/28/2014	05/01/2012 / jim	04/10/2012 / apatel	W1657

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	K43061	06/06/2017	12/26/2012 / roberto	06/06/2012 / apatel	W1692

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LITR E	2203415	09/30/2013	07/08/2013 / apatel	06/08/2012 / apatel	W1700

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EMD-FX0410-5 / FORMALDEHYDE SOLUTION 450ML	52062	08/23/2017	08/01/2013 / jim	08/23/2012 / apatel	W1722

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14940-1 / Buffer Solution, PH12 (500ml)	2210864	10/31/2013	12/13/2012 / jim	12/10/2012 / apatel	W1748

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	2205272	04/30/2014	01/02/2013 / jim	12/10/2012 / apatel	W1749

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J4296-1 / ZINC ACETATE,DIHYD,CRYST,AC S,500G	0000020964	08/22/2017	06/24/2013 / jim	12/27/2012 / apatel	W1752

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL35830-4 / IODINE SOLUTION .025N 1L	2301004	12/31/2013	09/28/2013 / jim	01/08/2013 / apatel	W1757

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	2301099	06/30/2014	04/30/2013 /	04/05/2013 / apatel	W1779

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	2303D97	09/30/2013	04/30/2013 / apatel	04/24/2013 / apatel	W1785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	4303B10	09/30/2013	05/06/2013 / apatel	05/06/2013 / apatel	W1789

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	2306598	05/31/2015	07/03/2013 / roberto	06/20/2013 / apatel	W1805

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2303957	03/31/2015	08/20/2013 / jim	08/08/2013 / apatel	W1812

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	2304659	03/31/2015	09/28/2013 / jim	08/08/2013 / apatel	W1813



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Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 2205272

Product Number: BDH0194

Expiration Date: APR 2014

Manufacture Date: 5/11/2012

The certified value for this product is confirmed in independent testing by a second qualified chemist.

Contains:

Name	CAS#	Grade
Inert Dye	Proprietary	Commercial Grade
Potassium Phosphate, Monobasic	7778-77-0	ACS
Preservative (No Mercury compounds or Formaldehyde)	Proprietary	Commercial Grade
Sodium Phosphate, Dibasic	7558-79-4	ACS
Water, Deionized	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, yellow, odorless	Passed Test
pH at 25 °C (traceable to NIST SRM 186 & 191)	pH determination	7.00 ± 0.01 pH at 25.0 °C	7.01 pH at 25.0 °C

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
BDH0194-20L	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

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Certificate of Analysis

Iodine (Iodine-Iodide), 0.0250 Normal (N/40), 1 mL = 0.4008 mg S2-

Lot Number: 2301004

Product Number: 3975

Expiration Date: DEC 2013

Manufacture Date: 1/2/2013

Contains:

Name	CAS#	Grade
Iodine, I2	7553-56-2	ACS
Potassium Iodide, KI	7681-11-0	ACS
Water, Deionized, H2O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, brown, Iodine odor	Passed Test
Assay at 20 °C (traceable to NIST SRM 136)	Titrimetric vs. Sodium Thiosulfate (Starch Indicator)	0.02500 ± 0.00002 N at 20.0 °C	0.02502 N at 20.0 °C

Specification	Reference	Method Number
Standard Iodine Solution, 0.0250 N	APHA	4500-S2- F
Iodine Solution (approximately 0.025 N)	EPA (SW-846)	9031
Standard Iodine Solution, 0.0250 N	EPA	376.1
Iodine Solution (approximately 0.025 N)	EPA (SW-846)	9034

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
3975-32	12 months
3975-1	12 months
3975-16	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



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Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: 2301099

Product Number: 1601

Expiration Date: JUN 2014

Manufacture Date: 1/8/2013

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

pH 10.31 (0 °C), pH 10.23 (5 °C), pH 10.17 (10 °C), 10.11 (15 °C), 10.05 (20 °C), 9.95 (30 °C), 9.91 (35 °C), 9.87 (40 °C), 9.81 (50 °C)

Contains:

Name	CAS#	Grade
Inert Dye	Proprietary	Commercial Grade
Preservative (No Mercury compounds or Formaldehyde)	Proprietary	Commercial Grade
Sodium Bicarbonate, NaHCO ₃	144-55-8	ACS
Sodium Carbonate, Na ₂ CO ₃	497-19-8	ACS
Water, Deionized, H ₂ O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, blue, odorless	Passed Test
pH at 25 °C (traceable to NIST SRM 186 & 191)	pH determination	10.000 ± 0.010 pH at 25.0 °C	10.006 pH at 25.0 °C

Specification	Reference	Method Number
Commercial Buffer Solutions	ASTM	D 1293 B
Buffer C	ASTM	D 5464
Buffer C	ASTM	D 5128

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
1601-2.5	18 months
1601-4	18 months
1601-32CS	18 months
1601-16CS	18 months
1601-32	18 months
1601-20B	18 months
1601-5	18 months
1601-20	18 months
1601-1	18 months
1601-1CT	18 months
1601-1CS	18 months
1601-16	18 months
1601-55	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

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Certificate of Analysis

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 2303957

Product Number: BDH0198

Expiration Date: MAR 2015

Manufacture Date: 3/18/2013

The certified value for this product is confirmed in independent testing by a second qualified chemist.

Contains:

Name	CAS#	Grade
Inert Dye	Proprietary	Commercial Grade
Potassium Acid Phthalate	877-24-7	Buffer or ACS
Preservative (No Mercury compounds or Formaldehyde)	Proprietary	Commercial Grade
Water, Deionized	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, light red, odorless	Passed Test
pH at 25 °C (traceable to NIST SRM 185 & 186)	pH determination	4.00 ± 0.01 pH at 25.0 °C	3.99 pH at 25.0 °C

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
BDH0198-20L	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

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Certificate of Analysis

Cyanide Standard, 1 mL = 1 mg CN, 1000 ppm CN

Lot Number: 2303D97

Product Number: 2543

Expiration Date: SEP 2013

Manufacture Date: 3/29/2013

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard.

Restandardize weekly if extreme accuracy is required.

Contains:

Name	CAS#	Grade
Potassium Cyanide, KCN	151-50-8	ACS
Sodium Hydroxide, NaOH	1310-73-2	ACS
Water, Deionized, H ₂ O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, colorless, cyanide odor	Passed Test
Certified Concentration	Based on accurate volumetric preparation	1000 ± 5 ppm CN-	1000 ppm CN-

Specification	Reference	Method Number
Stock Standard Cyanide Solution	APHA	4500-CN- F
Stock Cyanide Solution	APHA	4500-CN- E
Stock Cyanide Solution	APHA	4500-CN- K
Stock Cyanide Solution	APHA	4500-CN- H
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846)	7.3.3.2
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846)	9213
Stock Cyanide Solution	EPA	335.3
Stock Cyanide Solution	EPA	335.2
Cyanide Solution Stock	ASTM	D 4282
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM	D 4374

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
2543-4	6 months
2543-32	6 months
2543-16	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)



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Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 2304659

Product Number: BDH0194

Expiration Date: MAR 2015

Manufacture Date: 4/3/2013

The certified value for this product is confirmed in independent testing by a second qualified chemist.

Contains:

Name	CAS#	Grade
Inert Dye	Proprietary	Commercial Grade
Potassium Phosphate, Monobasic	7778-77-0	ACS
Preservative (No Mercury compounds or Formaldehyde)	Proprietary	Commercial Grade
Sodium Phosphate, Dibasic	7558-79-4	ACS
Water, Deionized	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, yellow, odorless	Passed Test
pH at 25 °C (traceable to NIST SRM 186 & 191)	pH determination	7.00 ± 0.01 pH at 25.0 °C	7.01 pH at 25.0 °C

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
BDH0194-20L	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

LaNelle Ohlhausen

LaNelle Ohlhausen
Quality Assurance



vwr.com
1.800.932.5000

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

To determine manufacture site using lot number, visit <http://www.riccachemical.com/Documents/lot.pdf>.

Certificate of Analysis

Starch Indicator, 0.5% (w/v) Aqueous Solution, Mercury Free, for Iodometric Titrations

Lot Number: 2306598

Product Number: 8000

Expiration Date: MAY 2015

Manufacture Date: 6/6/2013

This product is Mercury-free.

Contains:

Name	CAS#	Grade
Salicylic acid, C ₇ H ₆ O ₃	69-72-7	ACS
Starch, soluble, (C ₆ H ₁₀ O ₅) _n	9005-84-9	ACS
Water, Deionized, H ₂ O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Translucent, odorless	Passed Test
Suitability for Use	Characteristic Check	Colorless (Iodine absent) - Blue (Iodine present)	Passed Test

Specification	Reference	Method Number
Starch Solution	APHA	4500-S2- F
Starch Indicator Solution	APHA	4500-Cl B
Starch Indicator	APHA	4500-SO32- B
Starch indicator solution	APHA	2350 B
Starch indicator solution	APHA	2350 E
Starch Solution	APHA	510 B
Starch Solution	APHA	5530 C
Starch Indicator	APHA	4500-Cl C
Starch Indicator	EPA	345.1

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
8000-2.5	24 months
8000-32	24 months
8000-5	24 months
8000-1	24 months
8000-16	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



LaNelle Ohlhausen

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To determine manufacture site using lot number, visit <http://www.riccachemical.com/Documents/lot.pdf>.

Certificate of Analysis

Cyanide Standard, 1 mL = 1 mg CN, 1000 ppm CN

Lot Number: 4303B10

Product Number: 2543

Expiration Date: SEP 2013

Manufacture Date: 3/29/2013

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certified traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.

Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard.

Restandardize weekly if extreme accuracy is required.

Contains:

Name	CAS#	Grade
Potassium Cyanide, KCN	151-50-8	ACS
Sodium Hydroxide, NaOH	1310-73-2	ACS
Water, Deionized, H ₂ O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, colorless, cyanide odor	Passed Test
Certified Concentration	Based on accurate volumetric preparation	1000 ± 5 ppm CN-	1000 ppm CN-

Specification	Reference	Method Number
Stock Standard Cyanide Solution	APHA	4500-CN- F
Stock Cyanide Solution	APHA	4500-CN- E
Stock Cyanide Solution	APHA	4500-CN- K
Stock Cyanide Solution	APHA	4500-CN- H
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846)	7.3.3.2
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846)	9213
Stock Cyanide Solution	EPA	335.3
Stock Cyanide Solution	EPA	335.2
Cyanide Solution Stock	ASTM	D 4282
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM	D 4374

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
2543-4	6 months
2543-32	6 months
2543-16	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)



LaNelle Ohlhausen
Quality Assurance

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

Version: 2

To determine manufacture site using lot number, visit <http://www.riccachemical.com/Documents/lot.pdf>.

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RICCA CHEMICAL COMPANY

W1248
12/10/12

Arlington, TX 76012
Pocomoke City, MD 21851
Batesville, IN 47006
<http://www.riccachemical.com>
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 \pm 0.01 at 25°C

Lot Number: 2210864

Product Number: 1615

Expiration Date: OCT 2013

Manufacture Date: 11/2/2012

The certified value for this product is confirmed in independent testing by a second qualified chemist.

Contains:

Name	CAS#	Grade
Potassium Chloride, KCl	7447-40-7	ACS
Sodium Hydroxide, NaOH	1310-73-2	ACS
Water, Deionized, H ₂ O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, colorless, odorless	Passed Test
pH at 25 °C (traceable to NIST SRM 186 & 191)	pH determination	12.000 \pm 0.010 pH at 25.0 °C	12.000 pH at 25.0 °C

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
1615-2.5	12 months
1615-32	12 months
1615-20B	12 months
1615-5	12 months
1615-1	12 months
1615-1CT	12 months
1615-16	12 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

LaNelle Ohlhausen

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To determine manufacture site using lot number, visit <http://www.riccachemical.com/Documents/lot.pdf>.

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 2203102

Product Number: 1493

Expiration Date: FEB 2014

Manufacture Date: 3/6/2012

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

pH 1.93 (10 °C), 1.98 (15 °C), 1.98 (20 °C), 2.01 (30 °C), 2.03 (35 °C), 2.03 (40 °C), 2.04 (45 °C), 2.04 (50 °C)

Contains:

Name	CAS#	Grade
Hydrochloric Acid, HCl	7647-01-0	ACS
Potassium Chloride, KCl	7447-40-7	ACS
Water, Deionized, H ₂ O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, colorless, odorless	Passed Test
pH at 25 °C (traceable to NIST SRM 185 & 186)	pH determination	2.000 ± 0.010 pH at 25.0 °C	2.003 pH at 25.0 °C

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Shelf Life (unopened container):

Part Number	Shelf Life
1493-2.5	24 months
1493-32	24 months
1493-5	24 months
1493-1	24 months
1493-1CT	24 months
1493-16	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)



LaNelle Ohlhausen

Quality Assurance

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Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 2203415

Product Number: 7900

Expiration Date: SEP 2013

Manufacture Date: 3/14/2012

Contains:

Name	CAS#	Grade
Organic Preservative	Proprietary	Commercial Grade
Sodium Carbonate, Na ₂ CO ₃	497-19-8	ACS
Sodium Thiosulfate Pentahydrate, Na ₂ S ₂ O ₃ ·5H ₂ O	10102-17-7	ACS
Water, Deionized, H ₂ O	7732-18-5	ACS, ASTM D 1193 (Type I), EP, USP

Test Name	Assay Method	Specification	Result
Appearance	Clarity, Color, Odor	Clear, colorless, slight organic odor	Passed Test
Assay at 20 °C (traceable to NIST SRM 136)	Titrimetric vs. Potassium Iodate (Starch Indicator)	0.02500 ± 0.00001 N at 20.0 °C	0.02501 N at 20.0 °C

Specification	Reference	Method Number
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA	4500-S2- F
Standard Sodium Thiosulfate Titrant	APHA	4500-O D
Standard Sodium Thiosulfate Titrant	APHA	4500-O E
Standard Sodium Thiosulfate Titrant	APHA	4500-O F
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA	4500-CI B
Standard Sodium Thiosulfate Titrant	APHA	4500-O C
Standard Sodium Thiosulfate Titrant, 0.025 M	APHA	5530 C
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846)	9031
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846)	9034

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

Shelf Life (unopened container):

Part Number	Shelf Life
7900-2.5	18 months
7900-32	18 months
7900-5	18 months
7900-1	18 months
7900-16	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

LaNelle Ohlhausen
Quality Assurance

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

To determine manufacture site using lot number, visit <http://www.riccachemical.com/Documents/lot.pdf>.

Version: 1



EMD Chemicals Inc.
480 S. Democrat Road
Gibbstown, NJ 08027
Phone 856-423-6300
Fax 856-423-4389

Name: Magnesium Chloride Hexahydrate
Extra Pure
USP, Ph Eur, BP, FCC, E511

Formula: $\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$

Item Number: 1.05832.9027, 1.05832.9028, 1.05832.9524,
1.05832.9527, 00583292, 1.05832.1000,
1.05832.1000A, 1.05832.9012

Formula Wt: 203.30

Lot Number: A0031132

Data Order No: 000178869

CHARACTERISTIC	REQUIREMENT		RESULTS	UNITS
	Min.	Max.		
Aluminium (Al)		0.0001	< 0.0001	%
pH (5%, water)	4.5	7.0	5.5	
Original Examination Date			6-FEB-2009	
Minimum shelf life			28-FEB-2011	
Assay (complexometric)	99.0	101.0	100.4	%
Mercury (Hg)		0.0001	< 0.0001	%
Water	51.0	55.0	53.7	%
Lead (Pb)		0.0004	< 0.0004	%
Arsenic (As)		0.0002	< 0.0002	%
Iron (Fe)		0.0005	< 0.0005	%
Heavy metals (as Pb)		0.001	< 0.001	%
Sulfate (SO ₄)		0.005	< 0.002	%
Identification			Passes test	
Acidity or alkalinity			Passes test	
Residual Solvents (Ph.Eur./ICH)			Excluded by manufacturing process	
Insoluble matter		0.005	< 0.005	%
Organic volatile impurities (according to USP)			Meets requirements	
Endotoxins		3.0	< 3.0	I.U./g
Bromide (Br)		0.05	< 0.05	%
Potassium (K)		0.05	< 0.05	%
Calcium (Ca)		0.01	< 0.001	%
Ammonium (NH ₄)		0.005	< 0.005	%
Appearance of solution			Passes	
Barium (Ba)			Passes test	
Microbial limits-Total aerobic bacteria		100	<100	
Microbial limits-Total combined mold and yeast		100	<100	

Jim Morgera,
Quality Control Manager
Release Date: 4/2/2009



EMD Chemicals Inc.
480 S. Democrat Road
Gibbstown, NJ 08027
Phone 856-423-6300
Fax 856-423-4389

Name: Formaldehyde Solution
GR ACS
Meets ACS Specifications

Formula: HCHO

Item Number: FX0410-1, FX0410-20, FX0410-3, FX0410-5

Formula Wt: 30.03

Lot Number: 52062

Data Order No: 000428713

CHARACTERISTIC	REQUIREMENT		RESULTS	UNITS
	Min.	Max.		
Assay	36.5	38.0	36.55	%
Chloride (Cl)		5	<5	ppm
Color (APHA)		10	<10	
Form			Passes test	
Heavy metals (as Pb)		5	<5	ppm
Iron (Fe)		5	<5	ppm
Residue after ignition		0.005	<0.005	%
Sulfate (SO ₄)		0.002	<0.002	%
Titration acid		0.006	<0.006	meq/g

Gene A. Desotelle,
Quality Control Manager

Release Date: 3/7/2012

EMD Chemicals Inc.
(Formerly EM Science, A Division of EM Industries, Inc.)
An Affiliate of Merck KGaA, Darmstadt, Germany




Hydrochloric Acid, 36.5-38.0%

BAKER INSTRA-ANALYZED[®] Reagent
(For Trace Metal Analysis)

Product No. 9530
Lot No. H04040
Release Date 01/26/2009

Certificate of Analysis

TEST	SPECIFICATION	RESULT
Meets A.C.S. Specifications		
Assay (as HCl) (by acid-base titm)	36.5 - 38.0 %	37.5 %
Color (APHA)	10 max.	5
Residue after Ignition	3 ppm max.	1 ppm
Specific Gravity at 60°/60°F	1.185 - 1.192	1.187
Bromide (Br)	0.005 % max.	< 0.005 %
Extractable Organic Substances	5 ppm max.	< 1 ppm
Free Chlorine (as Cl)	0.5 ppm max.	< 0.5 ppm
Trace Impurities (in ppm):		
Phosphate (PO ₄)	0.05 max.	< 0.03
Sulfate (SO ₄)	0.5 max.	< 0.3
Sulfite (SO ₃)	0.8 max.	< 0.2
Ammonium (NH ₄)	3 max.	< 1
Arsenic (As)	0.01 max.	< 0.003
Trace Impurities (in ppb):		
Aluminum (Al)	10 max.	< 0.2
Arsenic and Antimony (as As)	5 max.	< 3
Barium (Ba)	1 max.	< 0.2
Beryllium (Be)	1 max.	< 0.2
Bismuth (Bi)	10 max.	< 1
Boron (B)	20 max.	1
Cadmium (Cd)	1 max.	< 0.3
Calcium (Ca)	50 max.	3
Chromium (Cr)	1 max.	0.5
Cobalt (Co)	1 max.	< 0.3
Copper (Cu)	1 max.	< 0.1
Gallium (Ga)	1 max.	< 0.2
Germanium (Ge)	3 max.	< 2
Gold (Au)	4 max.	< 0.2
Heavy Metals (as Pb)	100 max.	< 50
Iron (Fe)	15 max.	1
Lead (Pb)	1 max.	< 0.5
Lithium (Li)	1 max.	< 0.2
Magnesium (Mg)	10 max.	0.6
Manganese (Mn)	1 max.	< 0.4
Mercury (Hg)	0.5 max.	< 0.1
Molybdenum (Mo)	10 max.	< 3
Nickel (Ni)	4 max.	0.3

Niobium (Nb)	1 max.	0.2
Potassium (K)	9 max.	< 2
Selenium (Se)	Information Only	1
Silicon (Si)	100 max.	< 0.4
Silver (Ag)	1 max.	< 0.3
Sodium (Na)	100 max.	3
Strontium (Sr)	1 max.	< 0.2
Tantalum (Ta)	1 max.	< 0.9
Thallium (Tl)	5 max.	< 2
Tin (Sn)	5 max.	< 0.8
Titanium (Ti)	1 max.	< 0.2
Vanadium (V)	1 max.	< 0.2
Zinc (Zn)	5 max.	4
Zirconium (Zr)	1 max.	< 0.1
Product Information (not specifications):		
Appearance (clear, fuming liquid)		
For Laboratory, Research or Manufacturing Use		
Country of Origin: USA		
 Phillipsburg, NJ 9001:2000 & 14001:1996 Paris, KY 9001:2000 Mexico City, Mexico 9001:2000 Deventer, Holland 9001:2000 & 14001:1996 Selangor, Malaysia 9001:2000		

Marcy M. Matlock

Marcy M. Matlock
Director of QA & Regulatory Affairs

For questions on this Certificate of Analysis please contact Technical Services at 1-800-582-2537 or 908-859-2151
 Mallinckrodt Baker, Inc. • 222 Red School Lane • Phillipsburg, NJ 08865 • Phone: 908.859.2151 • Fax: 908.859.6905

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SEIDLER CHEMICAL
973-465-1122



Potassium Phosphate,
Monobasic, Crystal

BAKER ANALYZED[®] A.C.S. Reagent
(potassium dihydrogen phosphate)

Product No. 3246
Lot No. H21149
Release Date 07/13/2009

Certificate of Analysis

TEST	SPECIFICATION	RESULT
Exceeds A.C.S. Specifications		
Meets Reagent Specifications for testing USP/NF monographs		
Assay (KH ₂ PO ₄) (by acidimetry)	99.0 % min.	100.1 %
Insoluble Matter	0.01 % max.	< 0.002 %
Loss on Drying at 105°C	0.2 % max.	< 0.02 %
pH of 5% Solution at 25°C	4.1 - 4.5	4.4
Chloride (Cl)	0.001 % max.	< 0.001 %
Fluoride (F)	0.001 % max.	< 0.0002 %
Nitrogen Compounds (as N)	0.001 % max.	< 0.001 %
Sulfate (SO ₄)	0.003 % max.	< 0.002 %
Heavy Metals (as Pb)	0.001 % max.	< 0.0005 %
Iron (Fe)	0.002 % max.	< 0.001 %
Lead (Pb)	0.001 % max.	< 0.001 %
Sodium (Na)	0.005 % max.	0.0009 %
Trace Impurities (in ppm):		
Arsenic (As)	3 max.	< 3

For Laboratory, Research or Manufacturing Use

Country of Origin: USA



Phillipsburg, NJ 9001:2000 & 14001:1996
Paris, KY 9001:2000
Mexico City, Mexico 9001:2000
Deventer, Holland 9001:2000 & 14001:1996
Selangor, Malaysia 9001:2000

Marcy M. Matloz

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Director of QA & Regulatory Affairs

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Sodium Sulfide, 9-Hydrate, Crystal

BAKER ANALYZED[®] A.C.S. Reagent

Product No. 3910

Lot No. H23586

Release Date 06/05/2009

Certificate of Analysis

SPECIFICATION		RESULT
Meets A.C.S. Specifications		
Meets Reagent Specifications for testing USP/NF monographs		
Assay (Na ₂ S·9H ₂ O)	98.0 % min.	100.1 %
Sulfite and Thiosulfate (as SO ₂)	0.1 % max.	0.002 %
Ammonium (NH ₄)	0.005 % max.	< 0.005 %
Iron (Fe)	Passes Test	Passes Test
For Laboratory, Research or Manufacturing Use		
Product may turn slightly yellow on exposure to air. Color has no effect on specifications.		
Keep material refrigerated between 2-8°C (36-46°F).		
Country of Origin: USA		



Phillipsburg, NJ 9001-2000 & 14001-1995
Paris, KY 9001-2000
Mexico City, Mexico 9001-2000
Deventer, Holland 9001-2000 & 14001-1995
Selangor, Malaysia 9001-2000

Marcy M. Matlock
Marcy M. Matlock
Technical Sales & Marketing Affairs

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Sand
Purified
Washed and Ignited

Product No. 3382
Lot No. H36602
Release Date 09/14/2009

Certificate of Analysis

TEST	SPECIFICATION	RESULT
Meets Reagent Specifications for testing USP/NF monographs		
Substances Soluble in HCl	0.16 % max.	< 0.01 %
For Laboratory, Research or Manufacturing Use		
Country of Origin: USA		

ISO

Phillipsburg, NJ 9001:2000 & 14001:1996
Paris, KY 9001:2000
Mexico City, Mexico 9001:2000
Deventer, Holland 9001:2000 & 14001:1996
Selangor, Malaysia 9001:2000

Marcy M. Matloz

Marcy M. Matloz
Director of QA & Regulatory Affairs

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Sulfuric Acid

BAKER INSTRA-ANALYZED[®] Reagent
For Trace Metal Analysis
Low Selenium

Product No. 9673
 Lot No. K43061
 Release Date 10/26/2011

Certificate of Analysis

TEST	SPECIFICATION	RESULT
Meets A.C.S. Specifications		
Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.6 %
Appearance	Passes Test	Passes Test
Color (APHA)	10 max.	5
Residue after Ignition	3 ppm max.	< 1 ppm
Substances Reducing Permanganate (as SO ₂)	2 ppm max.	< 2 ppm
Trace Impurities (in ppm):		
Ammonium (NH ₄)	1 max.	< 0.5
Chloride (Cl)	0.1 max.	< 0.05
Nitrate (NO ₃)	0.2 max.	< 0.1
Phosphate (PO ₄)	0.5 max.	< 0.05
Trace Impurities (in ppb):		
Aluminum (Al)	30 max.	< 0.2
Arsenic and Antimony (as As)	4 max.	< 2
Barium (Ba)	10 max.	< 0.2
Beryllium (Be)	10 max.	< 0.2
Bismuth (Bi)	10 max.	1
Boron (B)	10 max.	2
Cadmium (Cd)	2 max.	< 0.3
Calcium (Ca)	50 max.	0.4
Chromium (Cr)	6 max.	< 0.4
Cobalt (Co)	0.5 max.	< 0.3
Copper (Cu)	1 max.	< 0.1
Gallium (Ga)	10 max.	< 0.2
Germanium (Ge)	10 max.	< 2
Gold (Au)	10 max.	< 0.2
Heavy Metals (as Pb)	500 max.	< 100
Iron (Fe)	50 max.	4.5
Lead (Pb)	0.5 max.	< 0.5
Lithium (Li)	10 max.	< 0.2
Magnesium (Mg)	7 max.	< 0.2
Manganese (Mn)	1 max.	< 0.4
Mercury (Hg)	0.5 max.	0.1
Molybdenum (Mo)	10 max.	< 3
Nickel (Ni)	2 max.	< 0.3
Niobium (Nb)	10 max.	0.2

Age Group	Percentage
1	10%
2	10%
3	10%
4	10%
5	10%
6	10%
7	10%
8	10%
9	10%
10	10%
11	10%
12	10%
13	10%

Age Group	Percentage
1	10%
2	10%
3	10%
4	10%
5	10%
6	10%
7	10%
8	10%
9	10%
10	10%
11	10%
12	10%
13	10%

Age Group	Percentage
1	10%
2	10%
3	10%
4	10%
5	10%
6	10%
7	10%
8	10%
9	10%
10	10%
11	10%
12	10%
13	10%



Age Group	Percentage
1	10%
2	10%
3	10%
4	10%
5	10%
6	10%
7	10%
8	10%
9	10%
10	10%
11	10%
12	10%
13	10%

Age Group	Percentage
1	10%
2	10%
3	10%
4	10%
5	10%
6	10%
7	10%
8	10%
9	10%
10	10%
11	10%
12	10%
13	10%

CERTIFICATE OF ANALYSIS
SODIUM HYDROXIDE PELLETS

ACS/USP/NF/FCC GRADE

Lot # PB002849SP

QC # NP9044

Date of Manufacture: 01/20/10

Expiration Date: Three Years from Date of Manufacture

Main Catalog #: 289USP/NF, xf2890000NF

Parameter	Monograph	Specification	Result
Assay (as NaOH)	ACS NF FCC	97.0% min. 95.0% - 100.5% 95.0% - 100.5%	99.52%
Identification	NF	To Pass Test	Pass
Na ₂ CO ₃	ACS NF FCC	1.0% max. 3.0% max 3.0% max	0.31%
Sulfate (SO ₄)	ACS	0.003% max.	<0.003%
Chloride (Cl)	ACS	0.005% max.	<0.005%
Nitrogen Compounds (as N)	ACS	0.001% max.	<0.001%
Phosphate (PO ₄)	ACS	0.001% max.	<0.001%
Heavy Metals (as Ag)	ACS	0.002% max	<0.002%
Heavy Metals (as Pb)	NF	0.003% max.	<0.002%
Lead (Pb)	FCC	2ppm max.	<2ppm
Iron (Fe)	ACS	0.001%	<0.001%
Nickel (Ni)	ACS	0.001% max.	<0.001%
Mercury (Hg)	ACS FCC	0.1ppm max.	<0.1ppm
Calcium (Ca)	ACS	0.005% max.	<0.005%
Magnesium (Mg)	ACS	0.002% max.	<0.002%
Potassium (K)	ACS NF	0.02% To Pass Test	<0.02% Pass
Arsenic (As)	FCC	3ppm max.	<3ppm
Insoluble Substances and Organic Matter	NF FCC	To Pass Test	Pass

Form: Sodium Hydroxide, ACS/USP/NF/FCC, #101, rev. 2.6, 09/08, EF

Approved by: E. Frenkel, Director of Quality Control

Disclaimer: For Industrial, Pharmaceutical, Flavor & Fragrance or Lab Use. Not intended for use as an active substance in Food or Drug. Not to be considered a Medical Device. Not intended for use as a Disinfectant as defined by the EPA. The appropriate use of this product is the sole responsibility of the user. (Rev. # disclaimer only, rev 3.3 10/05/05 PD)

PHARMCO-AAPER

www.pharmcoaaper.com

1-800-243-5360

SHIPPING DOCUMENTS

E3897

USEPA

Date Shipped 9/27/2013

Carrier Name: Courier Pick Up

Airbill No N/A

CHAIN OF CUSTODY RECORD

RFP No. 265 / Weston Solutions

Contact Name: Scott Snyder

Contact Phone: 732-570-4993

No: 2-092713-140902-0045

Cooler # 1 of 1

Lab: ChemTech

Lab Phone:

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
* 1	P001-S-3009-1	Area 03	RCRA Characteristics	Soil	9/27/2013	10:15	1	8-oz. jar	4 C	N
1	P001-S-3010-1	Area 03	RCRA Characteristics	Soil	9/27/2013	10:25	1	8-oz. jar	4 C	N
2	P001-S-3011-1	Area 03	RCRA Characteristics	Soil	9/27/2013	10:40	1	8-oz. jar	4 C	N
3	P001-S-3012-1	Area 03	RCRA Characteristics	Soil	9/27/2013	10:50	1	8-oz. jar	4 C	N
4	P001-S-3013-1	Area 03	RCRA Characteristics	Soil	9/26/2013	14:00	1	8-oz. jar	4 C	N
5	P001-S-4001-1	Area 04	RCRA Characteristics	Soil	9/26/2013	13:25	1	8-oz. jar	4 C	N
6	P001-S-4002-1	Area 04	RCRA Characteristics	Soil	9/26/2013	13:30	1	8-oz. jar	4 C	N
7	P001-S-4003-1	Area 04	RCRA Characteristics	Soil	9/26/2013	13:40	1	8-oz. jar	4 C	N
8	P001-S-5001-1	Area 05	RCRA Characteristics	Soil	9/26/2013	10:00	1	8-oz. jar	4 C	N
9	P001-S-5002-1	Area 05	RCRA Characteristics	Soil	9/26/2013	10:10	1	8-oz. jar	4 C	N
10	P001-S-5003-1	Area 05	RCRA Characteristics	Soil	9/26/2013	10:30	1	8-oz. jar	4 C	N
11	P001-S-5004-1	Area 05	RCRA Characteristics	Soil	9/26/2013	10:45	1	8-oz. jar	4 C	N
12	P001-S-5005-1	Area 05	RCRA Characteristics	Soil	9/26/2013	10:55	1	8-oz. jar	4 C	N
13	P001-S-6004-1	Area 06	RCRA Characteristics	Soil	9/26/2013	13:10	1	8-oz. jar	4 C	N
14	P001-S-6005-1	Area 06	RCRA Characteristics	Soil	9/26/2013	11:40	1	8-oz. jar	4 C	N
15	P001-S-6005-2	Area 06	RCRA Characteristics	Soil	9/26/2013	11:40	1	8-oz. jar	4 C	N
16	P001-S-6006-1	Area 06	RCRA Characteristics	Soil	9/26/2013	11:06	1	8-oz. jar	4 C	N
17	P001-S-6007-1	Area 06	RCRA Characteristics	Soil	9/26/2013	11:20	1	8-oz. jar	4 C	N
18	P001-S-6008-1	Area 06	RCRA Characteristics	Soil	9/26/2013	11:30	1	8-oz. jar	4 C	N

Special Instructions: RFP No. 265

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

N/A

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Lab Analysis	<i>[Signature]</i>	9/27/13	<i>[Signature]</i>	9/27/13	1630						
							Copy				
							Original Documents are included in CSF				
							<i>PS</i>				
	<i>[Signature]</i>	9-27-13 1900					Signature		<i>[Signature]</i>	9/28/13 1900	

9/28/13

Date

* = In E3896

Temp 4°C

AirbillNo N/A

Contact Phone: 732-570-4993

Lab Phone:

Copy

Original Documents are included in CSF E3896

PS

Signature

9/28/13

Date

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
Lab Analysis	<i>[Signature]</i>	9/27/13	<i>[Signature]</i>	9-27-13	1630						
	<i>[Signature]</i>	9-27-13							<i>[Signature]</i>	9/27/13	1900

Laboratory Certification

State	License No.
New Jersey	20012
New York	11376
Connecticut	PH-0649
Florida	E87935
Louisiana	5035
Maryland	296
Massachusetts	M-NJ503
Pennsylvania	68-548
Rhode Island	LAO00259
Virginia	460220
Texas	T10470448-10-1

Other :

DOD ELAP Certified (L-A-B Accredited), ISO/IEC 17025	L2219
Soil Permit	P330-11-00012
CLP Inorganic Contract	EPW09038
CLP Organic Contract	EPW11030

QA Control Code: A2070148